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JOINT TASK FORCE SEVEN WASHINGTON DC
OPERATION WIGWAM.(U)

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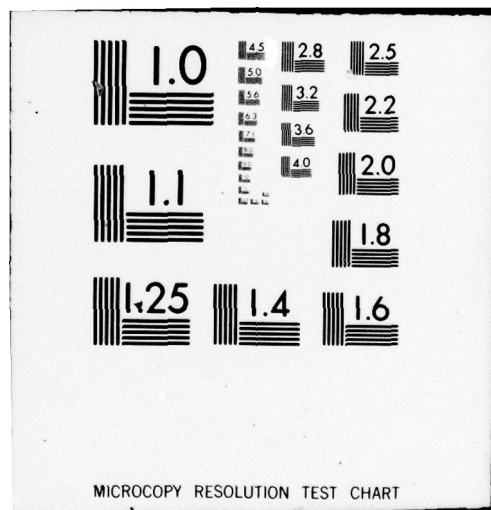
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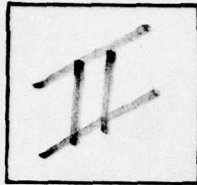




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DTIC ACCESSION NUMBER



LEVEL



INVENTORY

Operation WIGWAM
Commander Task Group 7.3 operation Plan # 1-55
DOCUMENT IDENTIFICATION

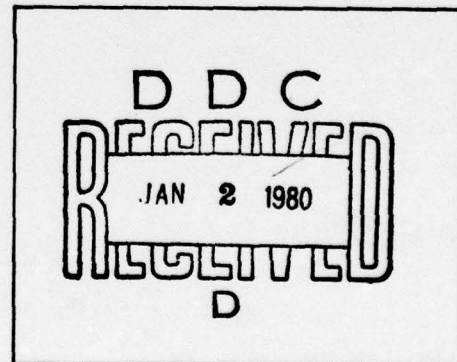
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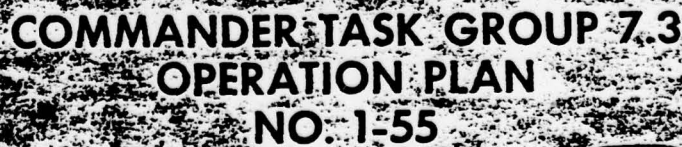
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DEPT. OF THE NAVY - BUREAU OF NAVAL PERSONNEL - 7/1/59 AND 11/30/55



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Operation Plan
CTG 7.3 No. 1-55

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Chart Reference: HO 5760
DECLASSIFIED BY DND1 IAW CNO LTR 6/15/76 SUBJ
Task Organization DEPT. OF THE NAVY INFO ORIG BETWEEN 7/1/50 AND 11/30/55

a. TU 7.3.0 Flagship Unit

RADM John Sylvester

USS MT MCKINLEY (AGC-7) (FF)
USS CURTISS (AV-4) (F)

1 AGC
1 AV

b. TU 7.3.1 Scientific Unit

Dr. A. B. Focke

TE 7.3.1.1 Free-Field Measurements
Element

LTCOL G. F. Watkins, USAF

TE 7.3.1.2 Radiological and Oceano-
graphic Element

Dr. E. P. Cooper

TE 7.3.1.3 Target Response Element

CDR D. R. Saveker

TE 7.3.1.4 Weapon Characteristics
Element

Mr. H. Lenander

TE 7.3.1.5 Timing and Firing Element

Mr. B. J. O'Keefe

TE 7.3.1.6 Photographic Element

Mr. H. Albert

TE 7.3.1.7 Radiological Support
Element

CAPT G. G. Molumphy

USS GEORGE EASTMAN (YAG-39)

USS GRANVILLE S. HALL (YAG-40)

USS MOLALA (ATF-106)

2 YAG
1 ATF

TE 7.3.1.8 Oceanographic Support
Element

Mr. James Faughn

R/V HORIZON

R/V BAIRD

R/V PAOLINA-T

T-BOAT

3 R/V
1 T-Boat

c. TU 7.3.2 Carrier Air Support Unit

CAPT T. P. Wilson

USS WRIGHT (CVL-49) (F)

1 CVL

HMR-362

VS-21

VC-35

7 HRS-3
6 AF-2S
3 AD-5N

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JOINT TASK FORCE 7
TASK GROUP 7.3
Washington 25, D. C.

2/12398
FF3/7.3/10:ajs
A4-3
Ser: 00295
27 April 1955

From: Commander Task Group 7.3
To: Distribution List

Subj: CTG 7.3 Operation Order No. 1-55; change #1

Encl: (1) Record of Changes
(2) Tab B to Appendix V to Annex H (Revised)

1. It is requested that the following changes be made to CTG 7.3 Operation Order No. 1-55:

a. Pen and ink changes:

- (1) Page 2, para 4. - After TE 7.3.4.3, Towing and Salvage Element, correct spelling of Task Element Commander to read "LOGSDON."
- (2) Page 3, para f. - After MATS, add "(VR-3)."
- (3) Page A-I-1 - Event 1, delete "and MOLALA."
- (4) Page A-I-1 - After Event 2, add "Event 2A, D-8, CTE 7.3.1.7, MOLALA sortie from San Diego."
- (5) Page A-I-3 - Event 20, under "Description" add "Turn on all project equipment using electrical power aboard YC-473 and MT MCKINLEY."
- (6) Page A-I-4 - Event 33, change "RECLAIMER" to read "BUTTERNUT."
- (7) Page A-I-4 - After Event 33, add "Event 33A, D-1, 1030, CTE 7.3.1.1, Commence lowering light meters from RECLAIMER for 1000' and 2000' stations for transfer to tow wire by LCM (Project 1.6)."
- (8) Page A-I-4 - After Event 35, add "Event 35A, D-1, 1300-1500, CTG 7.3, CURTISS assume H-Hour station."
- (9) Page A-I-4 - After Event 38, add "Event 38A, D-1, 1600, CTU 7.3.1, Rehearsal run for Events 55 and 59,"
- (10) Page A-I-5 - After Event 42, add "Event 42A, D, H-7 - H-6, CTG 7.3, CURTISS assume H-Hour station."
- (11) Page A-I-5 - Event 49, under "Description" change to read "YAG's rendezvous with MOLALA and LST-1048, Transfer YAG crews not required for early re-boarding to LST-1048. Complete prior to H-4. (TE 7.3.1.7)."

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- (12) Page A-I-6 - After Event 51, add "Event 51A, D, H-4, CTG 7.3, CURTISS assume H-Hour station."
- (13) Page A-I-6 - Event 55, under "Description" after "CURTISS" add "and MT MCKINLEY" also add to "Description" "(2 LCM's required)."
- (14) Page A-I-6 - Event 56, under "Description" delete "CTE 7.3.1.7 rendezvous with MOLALA." After "complete debarkation" insert "to MOLALA."
- (15) Page A-I-7 - Event 59 under "Description" insert "Complete EG&C check-off list" before "Report to CTU 7.3.1". After "Evacuate" delete "YC-473" and insert "firing party and boat crews by LCM's to YFNB-13 and then by helicopter to MT MCKINLEY and CURTISS, leaving LCM's....."
- (16) Page C-1 - Add sentence to paragraph 100.2, "All Task Group 7,3 radio circuits are to be fully activated and operational commencing 020900T."
- (17) Page C-1 - Paragraph 7, delete last sentence.
- (18) Page C-5 - Paragraph 438.2,c., change "Naval Station" to read "Naval Air Station."
- (19) Page C-5 - Add paragraph 438.2,e., "Encrypt classified messages addressed to the USS BUTTERNUT (AN-9) in Venus Pacific cryptosystem (Channel 106)."
- (20) Page C-7 - Paragraph 4,b., after "YFNB-12 X" delete "ETA."
- (21) Page C-I-A-1 - Channel 1A; delete frequency "474" and substitute "2484."
- (22) Page C-I-A-1 - Delete first sentence of "Description:" substitute "Activate circuit at 020900T."
- (23) Page C-I-A-5 - Channel 7A, delete "2656 KCS" and substitute "5260 KCS."
- (24) Page C-I-A-7 - Add after Channel 14B, "14C, 102 KCS."

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- (25) Page C-I-C-1 - Delete frequency "474" and substitute "2484."
- (26) Page C-I-C-1 - Delete frequency "2656" and substitute "5260."
- (27) Page C-II-4 - Under paragraph 1.f., add "#" before word "RUMPUS"; add code word "*NUTCRACKER(No.)" meaning "times 10-X." Add "Ex. (3) NUTCRACKER 5 indicates times 10⁻⁵; RUMPUS 8 NUTCRACKER 3 indicates 8 x 10⁻³ micro curies per milliliter."
- (28) Page C-II-5 - Change "HAMROCK EASY" in 9th line from bottom of page to "HAMBROOK EASY."
- (29) Page C-II-6 - Add code word in alphabetical order "*NUTCRACKER (No.) - (code word - see section 1.f. above)."
- (30) Page C-III-2 & Page C-III-6 - Add the following announcements:
- | <u>TIME</u> | <u>ANNOUNCEMENT</u> |
|---------------------|--|
| -1 hr and 30 mins | "Observe radio silence, except on authorized circuits - observe radio silence, except on authorized circuits." |
| -1 hr and 3 mins | "Observe radio silence, except on authorized circuits - observe radio silence, except on authorized circuits." |
| -3 mins and 50 secs | "Observe radio silence, except on authorized circuits - observe radio silence, except on authorized circuits." |
- (31) Page E-2 - Add to paragraph 3.a.(3), "(g) Project 1.6, Under Water Light Curve, W. J. Thaler, NRL."
- (32) Page E-6 - Paragraph 4.c.(1), delete "1.4" and insert "1.6".
- (33) Page H-I-1 - Under air schedules add new sub-paragraph, "2.d. Survey 1, Survey 2, Rehearsal, Survey 1, Survey 2, rehearsal missions will be conducted on D-3 Day or D-2 Day as the situation permits."

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- (34) Page H-I-2 - Under Air Schedules D-Day, Event No. 4, in report to column, change "TATC Net" to read "Helicopter (P) Net."
- (35) Page H-I-3 - Under Air Schedules D-Day, Event No. 6, in report to column, change "TATC Net" to read, "Helicopter (S) Net." Event No. 7, in report to column, add, "LAZARUS on Helicopter (P) Net" to apply to 1 HRS.
- (36) Page H-IV-1 - Under Helicopter Utilization Plan, paragraph 2, Control, 5th line, delete words "will report in on the TATC Net but."
- (37) Page H-V-1 - Under Air Photographic Plan, paragraph 2, Control, line 2, delete "339.4 MCS."
- (38) Page H-V-2 - Under Air Photographic Plan, paragraph 1, add, "At H+40 Min. the RB-50 will descend below the overcast or if ceiling permits take station at 9000' and conduct photography of disturbed area from H+40 to H+65."
- (39) Page P-I-1 - Paragraph 1, last sentence, delete "the form contained in CINCPACFLT INSTRUCTION 03500.2" and insert "CINCPACFLT INSTRUCTION 03100.2." Delete paragraph 2 and renumber paragraph 3 paragraph 2, and paragraph 4 paragraph 3.

b. Inserts and deletions:

(1) Insert enclosure (1), record of changes, following front cover of subject operation order.

(2) Insert enclosure (2), C-54 Photo Track Diagram, Change No. 1, and delete original Tab B to Appendix V to Annex H.

2. It is requested that the deleted page, Tab B to Appendix V to Annex H, be destroyed in accordance with OPNAV INSTRUCTION 5510.1A.

John Sylvester
JOHN SYLVESTER

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Attached

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CJTF SEVEN (ADV HQS) (2 cys)
CJTF SEVEN (Washington, D.C.) (4 cys)

NAVY ACTIVITIES

CNO (Op-36)(15 cys)
CinCPac (3 cys)
CinCPacFlt (3 cys)
ComFIRSTFlt
ComWesSeaFron
ComHawSeaFron
Com 11
Com 12
ComAirPac
ComPhibPac
ComServPac
ComCruDesPac
ComSubPac
ComOpDevFor (2 cys)
ComPhibGruEastPac
ComFAIRWING 14
ComLongBeachNavShipYd
CO, NavPortCo, San Diego
ComNavBase, San Diego
ComNavBase, LOSA
CO, NAS, North Island
CO, NAS, Moffett Field
CO, NAS, Miramar
CO, NAAS, El Centro
CO, VS-21
CO, VC-35
ComDesRon THIRTEEN (3 cys)
ComDesDiv 132
ComSubFlot ONE
ComServRon ONE (5 cys)
CO, USS WRIGHT (CVL-49) (4 cys)
CO, VP-2 (5 cys)
CO, USS MT MCKINLEY (AGC-7) (4 cys)
CO, USS CURTISS (AV-4) (4 cys)
CO, USS FT MARION (LSD-22) (2 cys)
CO, USS COMSTOCK (LSD-19) (2 cys)
CO, USS RECLAIMER (ARS-42) (2 cys)
CO, USS BOLSTER (ARS-38) (2 cys)
CO, USS CHANTICLEER (ASR-7) (2 cys)
CO, VR-3

CO FASRON 110

CO, USS BLUE (DD-744) (2 cys)
CO, USS CUNNINGHAM (DD-752) (2 cys)
CO, USS EVANS (DD-754) (2 cys)
CO, USS MC KEAN (DDR-784) (2 cys)
CO, USS WALKER (DD-723) (2 cys)
CO, USS O'BRIEN (DD-725) (2 cys)
CO, USS HUBBARD (DD-748) (2 cys)
CO, USS SMALL (DDR-838) (2 cys)
CO, USS LST-975 (2 cys)
CO, USS LST-1048 (2 cys)
CO, USS CREE (2 cys)
CO, USS MOCTOBI (2 cys)
CO, USS HITCHITI (2 cys)
CO, USS TAWASA (2 cys)
CO, USS MOLALA (2 cys)
CO, USS BUTTERNUT
CO, USS GYPSY
OIC, USS G. EASTMAN (YAG-39)
OIC, USS GRANVILLE S. HALL (YAG-40)
OIC, TG 7.3 Boat Pool, Coronado
CO, TACRON ONE (2 cys)
OIC, FltWeaCen, San Diego
CO, SWUPac

MARINE CORPS ACTIVITIES

CG, Air FMF Pac
CO, MAG-36
CO, HMR-362 (2 cys)

ARMY ACTIVITIES

C/S, U.S. Army
DC/S, Plans and Research
AC/S, G-3, DA
AC/S, G-4, DA

AIR FORCE ACTIVITIES

C/S, U.S. Air Force
Director, R&D, Dept of Air Force
AFOAT
AFOAT-1
ARDC
DC/S, Operations
Com, MATS
Com, AFSWC (2 cys)
1370th Photo Mapping Group
Attn: 1371st Mapping & Charting Sqdrn

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Com, Kirtland AFB
Com, Andrews AFB
Com, 4901st Air Base Wing (2 cys)

AEC ACTIVITIES

Chairman, AEC
DMA, AEC
Div Bio Med, AEC
Div of Security, AEC
Div of Classification, AEC
WIGWAM AEC Security Rep
Test Classification Officer

DOD ACTIVITIES

Chief, AFSWP (2 cys)
CG, FC, AFSWP (2 cys)

OTHER ACTIVITIES

CTU 7.3.1 (Dr, A. B. Focke) (45 cys)

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RECORD OF CHANGES

CTG 7.3 OPERATION ORDER NO. 1-55

Change No.	Date of Change	Date Entered	Signature of person making change

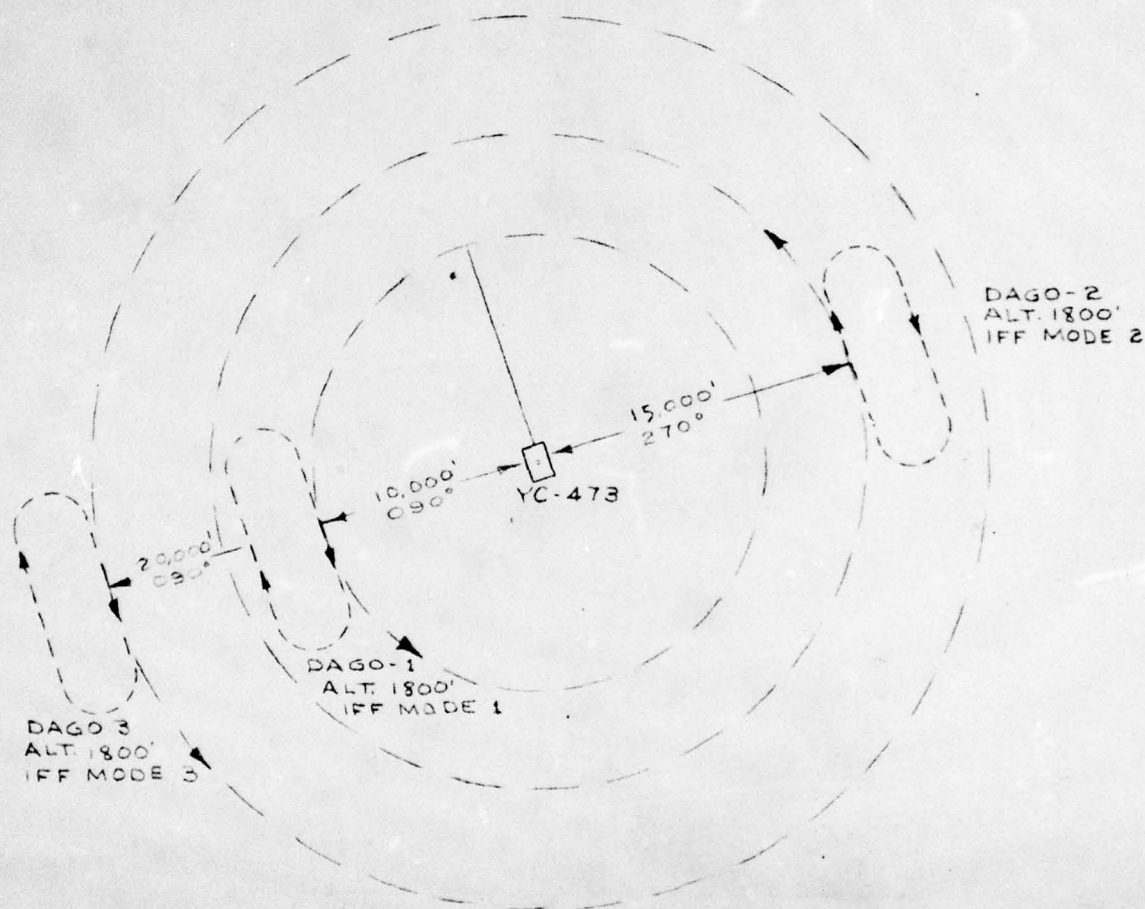
Change #1

CONFIDENTIAL
~~OPERATION PLAN~~
CTG 7.3 NR 1-55

JOINT TASK FORCE, SEVEN. *0112398*
TASK GROUP 7.3
WASHINGTON 25, D.C.
25 MARCH 1955; 1000 R

TAB B TO APPENDIX V TO ANNEX H

C-54 PLOT TRACK DIAGRAM



1. ALL BEARINGS FROM C-54 AIRCRAFT ARE RELATIVE TO YC-473.
2. ALL AIRCRAFT FLY RACE TRACK ORBIT, CIRCLING TO THE RIGHT, TIMED TO ARRIVE AT POSITIONS INDICATED AT H-HOUR. AFTER H-HOUR ALL AIRCRAFT START TURN TO LEFT MAINTAINING CONSTANT RADIUS EXCEPT AS DIRECTED BY PHOTO CREW CHIEF. TURN WILL BE MAINTAINED UNTIL MISSION IS COMPLETED.
3. IFF TRANSMISSIONS WILL BE TURNED OFF AT H+2 MINUTES.

[Signature]
M. ROTHLSBERGER
LCDR. U.S.N.

FLAG SECRETARY

H-V-B-1

JOHN SYLVESTER
REAR ADMIRAL, U.S. NAVY
COMMANDER

Change No. 1

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Operation Plan
CTG 7.3 No. 1-55

Chart Reference: HO 5760

Task Organization

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

a. TU 7.3.0 Flagship Unit

USS MT MCKINLEY (AGC-7) (FF)
USS CURTISS (AV-4) (F)

RADM John Sylvester

1 AGC
1 AV

b. TU 7.3.1 Scientific Unit

TE 7.3.1.1 Free-Field Measurements
Element
TE 7.3.1.2 Radiological and Oceano-
graphic Element
TE 7.3.1.3 Target Response Element
TE 7.3.1.4 Weapon Characteristics
Element
TE 7.3.1.5 Timing and Firing Element
TE 7.3.1.6 Photographic Element
TE 7.3.1.7 Radiological Support
Element

Dr. A. B. Focke

LTCOL G. F. Watkins, USAF

Dr. E. P. Cooper

CDR D. R. Saveker
Mr. H. Lenander

Mr. B. J. O'Keefe
Mr. H. Albert
CAPT G. G. Molumphy

USS GEORGE EASTMAN (YAG-39)
USS GRANVILLE S. HALL (YAG-40)
USS MOLALA (ATF-106)

2 YAG
1 ATF

TE 7.3.1.8 Oceanographic Support
Element

Mr. James Faughn

R/V HORIZON
R/V BAIRD
R/V PAOLINA-T
T-BOAT

3 R/V
1 T-Boat

c. TU 7.3.2 Carrier Air Support Unit

USS WRIGHT (CVL-49) (F)

CAPT T. P. Wilson

1 CVL

HMR-362
VS-21
VC-35

7 HRS-3
6 AF-2S
3 AD-5N

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Operation Plan
CTG 7.3 No. 1-55

d. TU 7.3.3 Surface Patrol Unit

CAPT G. K. Carmichael

DESRON 13

USS BLUE (DD-744) (F)
USS CUNNINGHAM (DD-752)
USS EVANS (DD-754)
USS MC KEAN (DDR-784)
USS WALKE (DD-723)
USS O'BRIEN (DD-725)
USS HUBBARD (DD-748)
USS SMALL (DDR-838)

6 DD
2 DDR

e. TU 7.3.4 Surface Support Unit

CAPT E. N. Teall, Jr.

TE 7.3.4.1 Transport Element

CAPT E. N. Teall, Jr.

USS FORT MARION (LSD-22) (F)
USS COMSTOCK (LSD-19)

2 LSD

TE 7.3.4.2 Wire Element

LT R. B. Purdy

USS LST 975
USS LST 1048

2 LST

TE 7.3.4.3 Towing and Salvage Element

CAPT E. W. Longsdon

(1) Tow ONE

USS CREE (ATF-84)
USS RECLAIMER (ARS-42)
YFNB-29
SQUAW-29

(2) Tow TWO

USS MOCTOBI (ATF-105)
USS CHANTICLEER (ASR-7) (F)
YFNB-13
SQUAW-13

(3) Tow THREE

USS HITCHITI (ATF-103)
USS BOISTER (ARS-38)
YFNB-12
SQUAW-12

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Operation Plan
CTG 7.3 No. 1-55

(4) Tow FOUR

USS TAWASA (ATF-92)
YC-473

(5) USS BUTTERNUT (AN-9)
USS GYPSY (ARSD-1)

TE 7.3.4.4 Boat Pool Element

f. TU 7.3.5 Land Based Air Support Unit

TE 7.3.5.1 Air Patrol Element

VP-2

TE 7.3.5.2 Air Photographic Element

USAF Lookout Mountain Laboratory

TE 7.3.5.3 Sample Distribution Element

MATS

TE 7.3.5.4 Hydrographic Survey Element

FASRON 110

2 ARS
1 ASR
3 YFNB
1 YC
4 ATF
1 AN
1 ARSD

LT B. R. Watkins

25 LCM
4 X-LCM

CDR J. M. Barlow

CDR J. M. Barlow

12 P2V-5

Senior Aviator Assigned

3 C-54
2 RB-50

Senior Aviator Assigned

As assigned

Senior Aviator Assigned

3 PhY-2

1. General Situation.

a. The Joint Chiefs of Staff have recognized the necessity for a deep underwater test of an atomic weapon to be conducted as a Joint Department of Defense/Atomic Energy Commission test. The Chief of Naval Operations has been designated as the Executive Agent of the Joint Chiefs of Staff to conduct this test, under the code name of Operation WIGWAM.

b. The chief objective of Operation WIGWAM is to determine with satisfactory accuracy at what ranges, under various conditions, a submarine or surface vessel will be destroyed by a deep underwater atomic explosion. The second objective is to determine the hazards to the delivery vehicle and its supporting forces.

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Operation Plan
CTG 7.3 No. 1-55

c. Enemy Forces

The Soviet Union is considered to be the one country having the greatest capacity for interfering with the mission of Task Group 7.3 or for attempting to gain information from Operation WIGWAM.

d. Friendly Forces

All United States military forces operating in the Pacific Ocean area.

e. Assumptions

None.

2. Mission.

This group will conduct a deep underwater test of an atomic weapon in order to:

a. Determine and evaluate the response of three submerged targets at one depth so as to obtain information from which a prediction can be made of the maximum range at which lethal hull splitting damage to a typical submerged submarine can be assured.

b. Determine the peak pressure and pressure-time fields in water resulting from a nuclear detonation at deep submergence.

c. Evaluate the surface effects with particular regard to their influence on delivery tactics.

d. Determine the equivalent yield of the weapon used, the dispersion of radioactive contaminants and the oceanographic factors affecting transmission of the shock wave.

3. Tasks of Subordinate Units.

a. Flagship Unit

Operate as directed by the Task Group Commander. CURTISS receive, transport and safeguard weapons and nuclear components and provide shipboard laboratory facilities as required by CTU 7.3.1.

b. Scientific Unit

Prepare for shipment, place, arm and detonate the device to be tested. Conduct the technical and measurement programs as outlined

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Operation Plan
CTG 7.3 No. 1-55

in Technical and Scientific Test Plan (Annex E). Conduct the radiological safety program in accordance with the Radiological Safety Plan (Annex G) and provide photographic coverage as outlined in Photographic Plan (Annex I). Keep CTU 7.3.4 advised of small boat requirements at the test site and provide CTU 7.3.2 with information on helicopter requirements. Make MOLALA (ATF-106) available to CTU 7.3.4 for assistance with the array from commencement of assembly until D-1.

c. Carrier Air Support Unit

Perform SAR functions as required in accordance with Search and Rescue Plan (Annex L). Provide intra-task group helicopter service in accordance with Air Plan (Annex H) as augmented by instructions which may be issued by CTG 7.3 and carry out applicable portions of Radiological Survey, Air Drop and Sample Return Plans (Appendix III to Annex H). Supply aerological information in accordance with Aerological Plan (Annex K) and provide one helicopter on board FORT MARION (LSD-22) for use of CTU 7.3.4 from D-8 until about D-5.

d. Surface Patrol Unit

Conduct surface search and anti-submarine patrol in accordance with Surface Search Plan (Annex M) and Contact Identification and Development Plan (Annex N), coordinating as necessary with CTU 7.3.5. Provide plane guard as required by CTU 7.3.2 commencing on D-2 and services of MC KEAN (DDR-784) and SMALL (DDR-838) on D-Day as outlined in Concept of Operations (Annex A), Technical and Scientific Test Plan (Annex E), and Radar-Scope Photography Plan (Annex R). Provide destroyer transportation for CJTF SEVEN and Staff, departing Long Beach on D-4 to arrive at the operating area on D-2 and departing the area on D+1 for return to Long Beach. Upon sortie of the towed array units from San Diego, provide screen and patrol to keep surface vessels from fouling the movements of the array, breaking off necessary ships as required to meet patrol schedule at Point ZEBRA. Provide one destroyer to screen CURTISS upon sortie from San Diego on D-6 and continuously thereafter until about H-7 hours.

e. Surface Support Unit

Conduct pre-operational handling test as may be directed by CTG 7.3 and deliver elements of the array to the operating area as outlined in Concept of Operations (Annex A). Assemble and tow the array at the test site in accordance with the Schedule of Events (Annex E) and as determined by experience gained in the full-scale array test. Conduct necessary salvage operations as outlined in Salvage Plan (Annex J) and, utilizing the TG 7.3 Boat Pool, provide

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Operation Plan
CTG 7.3 No. 1-55

small boat transportation between ships and array elements as required by CTU 7.3.1. Insure that tows are streamed or shortened only to seaward of San Diego Channel Buoy No. 10 and that catenaries do not extend over 35 feet below the surface of the water while proceeding through the channel. With SQUAW submerged, keep speed of array through the water below 2 knots; with SQUAW surfaced, keep speed below 6 knots. Insure that required day markers and towing lights are displayed by all tows and towing vessels. Advise CTU 7.3.3 of the cruising formation and disposition of towed array units to be used enroute to the operating area and provide LSD transportation to and from the operating area for one Scripps Institution of Oceanography buoy boat.

f. Land Based Air Support Unit

Conduct air search in accordance with Air Plan (Annex H), coordinating as required with CTU 7.3.3. Distribute samples in accordance with Air Schedules (Appendix I to Annex H), carry out applicable portions of Air Photographic Plan (Appendix V to Annex H), and conduct hydrographic flights in accordance with Aerological Plan (Annex K).

x. General

(1) This operation plan covers the period of operations from the time the major elements of TG 7.3 are assembled on the West Coast until the date for staging is determined. It is issued at this time for planning purposes only. When directed by the Commander Task Group 7.3, task units will be activated for operations, and this plan will become effective as an operation order.

(2) Safety of operation is paramount, particularly as it pertains to radiological hazards to personnel.

(3) All task units provide mutual support appropriate to the accomplishment of the over-all mission.

(4) Special precautions must be taken to counter the possible effects of underwater shock and contamination from fall-out and/or radioactive water. No ship will be assigned a station within 5 miles of surface zero. Prior to the shot all ships will establish the maximum condition of watertight integrity (Material Condition ABLE/ZEBRA) below the water line and maintain this condition until individual commanding officers have assured themselves that no damage has been sustained.

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CTG 7.3 No. 1-55

- (5) No garbage or trash of any nature will be thrown overboard from any unit of the task group except in areas designated by CTG 7.3.
- (6) Take all precautions necessary to keep fishing vessels, small craft and other vessels from fouling or interfering with tows.
- (7) Maintain continuous radar watch at all times while underway. Keep accurate navigational fix and make reports in accordance with Annex S.
- (8) Task unit commanders will:
 - (a) Prepare plans for the accomplishment of all tasks assigned and forward copies of their plans to CTG 7.3.
 - (b) Maintain detailed records of activities of their task units during Operation WIGWAM. Final report of operations will be submitted to CTG 7.3 in accordance with Appendix I to Annex P.
 - (c) Provide personnel, as required, to man array equipment and to support the Scientific Task Unit.
 - (d) Keep CTG 7.3 informed as to the status of their task units, providing specific details of any obstacles to the successful accomplishment of their missions.
 - (e) Exercise maximum economy in the conduct of all operations.
- (9) Sortie and movement instructions will be issued by separate directive.

4. Logistics.

Logistics in accordance with Logistic Plan (Annex D). On or about D-1 Commander Service Squadron ONE will supply a fleet tanker to refuel units of Task Group 7.3 in the operating area as required. Information as to the time and place of rendezvous, units to be fueled, communications, and subsequent refueling operations will be furnished by message later.

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5. Communications in accordance with the Communications and Electronics Plan (Annex C). Use operations time zone plus 7 (TARE). Commander Task Unit 7.3.4 in USS FORT MARION (LSD-22) second in command. Commander Task Group 7.3 at Navy Department, Washington 25, D. C., until about 4 April 1955, thence to Special Projects Unit, U. S. Navy Electronics Laboratory, San Diego, California until about 1 May 1955. Thereafter in USS MT MCKINLEY (AGC-7).

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander

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- I. Photographic Plan
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- Q. Oceanographic Survey Plan
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- S. Reports

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ComSubPac
ComOpDevFor
ComPhibGruEastPac
ComFAIRWING 14
ComLongBeachNavShipYd
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CO, USS CURTISS (AV-4)	76-79
CO, USS FT MARION (LSD-22)	80-81
CO, USS COMSTOCK (LSD-19)	82-83
CO, USS RECLAIMER (ARS-42)	84-85
CO, USS BOLSTER (ARS-38)	86-87
CO, USS CHANTICLEER (ASR-7)	88-89
CO, USS BLUE (DD-744)	90-91
CO, USS CUNNINGHAM (DD-752)	92-93
CO, USS EVANS (DD-754)	94-95
CO, USS MC KEAN (DDR-784)	96-97
CO, USS WALKER (DD-723)	98-99
CO, USS O'BRIEN (DD-725)	100-101
CO, USS HUBBARD (DD-748)	102-103
CO, USS SMALL (DDR-838)	104-105
CO, USS LST-975	106-107
CO, USS LST-1048	108-109
CO, USS CREE	110-111
CO, USS MOCTOBI	112-113
CO, USS HITCHITI	114-115
CO, USS TAWASA	116-117
CO, USS MOLALA	118-119
CO, USS BUTTERNUT	120
CO, USS GYPSY	121
OIC, USS GEORGE EASTMAN (YAG-39)	122
OIC, USS GRANVILLE S. HALL (YAG-40)	123
OIC, TG 7.3 Boat Pool, Coronado	124
CO, TACHRON ONE	125-126

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CG, Air FMF Pac
CO, MAG-36
CO, HMR-362

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ARMY Activities

C/S, U. S. Army
DC/S, Plans and Research
AC/S, G-3
AC/S, G-4

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AIR FORCE Activities

C/S, U. S. Air Force
Director, R&D
AFOAT
AFOAT-1
ARDC
DC/S, Operations
Com, MATS
Com, AFSWC
Com, Kirtland AFB
Com, Andrews AFB
Com, 4901st Air Base Wing

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AEC Activities

Chairman, AEC
DMA, AEC
Div Biomed, AEC
Div of Security, AEC
Div of Classification, AEC
WIGWAM AEC Security Representative
Test Classification Officer

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DOD Activities

Chief, AFSWP
CG, FC, AFSWP

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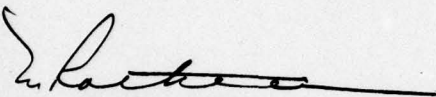
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M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Annex A

Concept of Operations

1. General.

a. This operation plan is derived from Chief of Naval Operations letter Op-361/chc, serial 0077P36 dated 18 February 1955 to the Commander, Joint Task Force SEVEN and CJTF SEVEN letter J-3/S-118-55W dated 15 March 1955 to Commander Task Group 7.3. Task Group 7.3 will be the only subordinate echelon of JTF SEVEN employed for Operation WIGWAM, and the services of the remaining task groups will not be required.

2. Area.

Operation WIGWAM will be conducted at least 50 miles from any land mass in the general area from south to southwest of San Diego, California, at a distance from that base of between 200 and 600 miles. This area may be extended to include an area between southwest and west of San Diego at the same distances should oceanographic studies indicate more favorable conditions exist therein. A more precise location within this area will be determined no later than D-4 based on oceanographic surveys conducted by the Scripps Institution of Oceanography.

3. Pre-Operational Tests.

The major portion of pre-operational testing culminated with the full-scale test of the array conducted by Commander Service Squadron ONE off San Diego in January 1955. Any further testing of array components will be covered by separate correspondence with the units concerned. Included therein may be additional testing of the zero barge and LCM's, drogue tests and gauge string lowerings. CTU 7.3.2 will be required to requalify pilots for carrier operations and to conduct such further flights as might be necessary for scientific purposes in the San Diego area. These will be coordinated by CTG 7.3 with CTU 7.3.1 and other task units involved. On or about 18 April 1955 a radar tracking and communication exercise and electronic interference test will be conducted at sea off San Diego. Units participating will be the MT MCKINLEY (AGC-7) with TACHON ONE embarked, CURTISS (AV-4), COMSTOCK (LSD-19) carrying certain instrument boats and TG 7.3 Boat Pool LCM's, RECLAIMER (ARS-42) towing the YC 473, 2 HRS helicopters, 2 AD-5N and 3 C-54 photographic aircraft, and the SMALL (DDR-838) and MC KEAN (DDR-784).

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Annex A - Concept of Operations

4. Assembly in San Diego Area.

a. The following support units will be made available during periods as indicated:

UNIT

DATE AVAILABLE

Ships

MT MCKINLEY (AGC-7)	14 February - 25 February 1955
	7 March - 25 March 1955
	4 April - 15 April 1955
	18 April - At sea
	25 April - 1 June 1955
CURTISS (AV-4)	4 April - 1 June 1955
WRIGHT (CVL-49)	14 March - 1 June 1955
FT MARION (LSD-22)	4 April - 27 May 1955
COMSTOCK (LSD-19)	4 April - 1 June 1955
CHANTICLEER (ASR-7)	15 April - 1 June 1955
BOLSTER (ARS-38)	22 April - 1 June 1955
RECLAIMER (ARS-42)	21 March - 1 June 1955
LST-975	4 April - 27 May 1955
LST-1048	14 February - 5 March 1955
	4 April - 27 May 1955
CREE (ATF-84)	22 April - 1 June 1955
HITCHITI (ATF-103)	22 April - 1 June 1955
MOCTOBI (ATF-105)	22 April - 1 June 1955
TAWASA (ATF-92)	22 April - 1 June 1955
MOLALA (ATF-106)	22 April - 1 June 1955
GYPSY (ARSD-1)	16 March - 1 June 1955
BUTTERNUT (AN-9)	8 May - 15 June 1955
DESRON 13	4 April - 27 May 1955
YAG-39	8 April - 27 May 1955
YAG-40	1 March - 1 June 1955
HORIZON	1 March - 1 June 1955
BAIRD	4 May - 1 June 1955
PAOLINA-T	4 May - 1 June 1955
T-BOAT	4 May - 1 June 1955

Aircraft

6 AF (VS21)	1 April - 1 June 1955
3 AD-5N (VC35)	1 March - 1 June 1955
7 HRS (HMR-362)	1 April - 1 June 1955
3 P4Y	1 April - 1 June 1955
12 P2V (VP-2)	8 April - 27 May 1955
3 C-54 (USAF)	As required
2 RB-50 (USAF)	As required
Sample Return Aircraft (MATS)	10-20 May 1955

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Annex A - Concept of Operations

b. Responsibility for the administration, discipline, internal organization, and unit training of these forces will be retained by their respective administrative commanders.

c. Project personnel and equipment commenced arriving on the West Coast during the latter part of 1954 and will build up to maximum strength early in 1955. Certain personnel will be located at the Special Projects Unit at the Navy Electronics Laboratory while others will base at the Navy Repair Facility. Assignment has been made by separate correspondence.

d. A loading plan for personnel and equipment will be issued separately to unit commanders concerned.

5. Deployment.

a. CTG 7.3 will issue a general sortie plan for departure from West Coast ports and rendezvous at Point YOKE. (See Annex N, Contact Identification and Development Plan). In the San Diego area sortie times will be based on the time of passing Ballast Point. All units will be deployed in accordance with a schedule which will permit project personnel to conduct necessary electronic testing of equipment enroute to the operating area and which, for security purposes, will permit units to depart separately. TU 7.3.3 and TU 7.3.4 will commence movement to the operating area on about D-8. For planning purposes D-Day is established as 11 May 1955. The exact date will be furnished by message to all participating units.

b. Speed of advance of target units is not expected to exceed 5 knots and will be contingent upon the weather conditions encountered.

c. CTU 7.3.2 will be prepared to furnish helicopter support between units enroute to the test site.

d. CTU 7.3.3 will provide patrol for array units enroute to the operating area.

e. CTU 7.3.4 will be prepared to provide small boat service during movement to the operating area.

f. Upon arrival at the test site, and when directed by CTG 7.3, assembly of the array and instrumentation will be commenced.

g. Night steaming instructions at the test site will be issued by CTG 7.3.

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Annex A - Concept of Operations

6. Post-Shot Activities.

a. After the weapon has been detonated, the array towing vessel will continue to tow the array until all elements are clear of the contaminated area. YAG-39 and YAG-40, will be dispatched to designated areas to pick up radiological water samples and to make an early radiological survey of the contaminated area. (Appendix II to Annex E). AD-5N aircraft will make a survey of the shot area and HORIZON and T-Boat will commence oceanographic and radiological surveys.

b. One helicopter will be launched to make a visual and radiological survey of the array. Based on the readings obtained, additional monitors will be dispatched to various array components via small boats. Disassembly of the array will commence following establishment of re-entry hour by the Task Group Radiological Safety Officer.

c. Those targets which are intact will be surfaced and towed to the Long Beach Naval Shipyard.

d. Any target which is bilged to the extent that it cannot be raised in the operating area will be towed to the Long Beach area where salvage operations will be conducted. Annex J covers the salvage facilities which will be available to the Commander Surface Support Unit for this task.

e. As soon as practicable after the shot, the array towing wire, buoys and instrument strings and floats will be reloaded aboard parent vessels for return to San Diego.


7. Stations of individual units during the shot are as shown in Tab A to Appendix I to this annex.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander

Appendix:

I - Schedule of Events

Tab A - Ship Stations at H-Hour


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Appendix I to Annex A

Schedule of Events

This appendix is not to be construed as an order or an exact time schedule to be followed. It is a tentative listing of events in the most probable sequence of accomplishment and is intended to be used as a guide or check-off list. Detailed listing of array assembly is not included but will be reflected in CTU 7.3.4's Operation Order.

<u>Event No.</u>	<u>Day</u>	<u>Hour</u>	<u>Event Coordinator</u>	<u>Description</u>
1	D-9		CTE 7.3.1.7	YAG's and MOLALA sortie from San Francisco.
2	D-8		CTG 7.3	TU 7.3.3 and TU 7.3.4 sortie from San Diego and Long Beach.
3	D-8		CTE 7.3.5.4	Continue hydrographic survey flights (CTE 7.3.5.4).
4	D-8 to D-2		CTU 7.3.1	All programs perform checks of instrumentation on board ships and craft as required to insure readiness.
5	D-7		CTE 7.3.1.8	HORIZON, BAIRD, PAOLINA-T and T-Boat arrive in operating area. Conduct oceanographic surveys, and set current drogues.
6	D-6		CTG 7.3	Designated destroyer depart Long Beach to screen CURTISS upon sortie from San Diego
7	D-6		CTG 7.3	MT MCKINLEY, CURTISS and WRIGHT sortie from San Diego.
8	D-5	0600	CTG 7.3	Units rendezvous as directed at Point YOKE.

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Appendix I to Annex A - Schedule of Events

<u>Event No.</u>	<u>Day</u>	<u>Hour</u>	<u>Event Coordinator</u>	<u>Description</u>
9	D-5	0900	CTU 7.3.1	Begin timing and firing signal checks. (Program V)
10	D-5	1200	CTU 7.3.3 CTU 7.3.5	CTU 7.3.3 and CTU 7.3.5 establish patrols around Point ZEBRA.
11	D-4		CTU 7.3.3	Designated destroyer depart Long Beach for operating area with CJTF SEVEN and Staff.
12	D-4	1200	CTE 7.3.1.2	CTE 7.3.1.2 make final report to CTG 7.3 of recommended location for conduct of test.
13	D-3	1200	CTE 7.3.1.8	Continue oceanographic surveys of test area. Report findings to CTU 7.3.1 and CTE 7.3.1.2 (Proj. 2.8).
14	D-2	0200	CTU 7.3.4	Commence balloon inflation on COMSTOCK. (Proj. 4.5).
15	D-2	0600	CTU 7.3.4	Commence assembly of array.
16	D-2	0600	CTE 7.3.4.4	Commence transfer of balloons from COMSTOCK to LCM for further transfer to YC-473, Stations 1A(2300'), 2A(3900') and YFNB-12. (Proj. 4.5).
17	D-2	0700	CTE 7.3.4.4	Commence moving instrument LCM's for Stations 1A(2300'), 1B(2500'), 2A(3900'), 2B(4100') from COMSTOCK to LST-1048 for securing to tow wire. (Projects 1.2 and 4.5).
18	D-2	0700	CTE 7.3.4.4	Commence moving instrument LCM's for Stations 6(15,000'), 7(19,000'), 8(23,000') and 9(28,000') from COMSTOCK to LST-975 for securing to tow wire. (Proj. 1.3).

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Operation Plan
CTG 7.3 No. 1-55

Appendix I to Annex A - Schedule of Events

<u>Event No.</u>	<u>Day</u>	<u>Hour</u>	<u>Event Coordinator</u>	<u>Description</u>
19	D-2	0900	CTU 7.3.1	Continue timing and firing checks. (Projs. as desired).
20	D-2	1415	CTU 7.3.1	Continue timing and firing checks. (Projs. as desired).
21	D-2	1500	CTE 7.3.1.8	Continue oceanographic surveys. Report findings to CTE 7.3.1.2 and CTG 7.3. Prepare to lay deep moorings. (Proj 2.8).
22	D-1	0530	CTE 7.3.4.3	Commence SQUAW submergence.
23	D-1	0530	CTE 7.3.1.4	Commence raising balloons to height. (Proj. 4.5).
24	D-1	0900	CTU 7.3.1	Continue timing and firing signals. (Projs. as desired).
25	D-1	1030	CTU 7.3.4	Complete placing SQUAWS and YFNB's into array. Release MOLALA for duty with YAG's.
26	D-1	1030	CTE 7.3.1.8	Commence laying deep moorings.
27	D-1	1030	CTE 7.3.4.3	Survey SQUAWS 12, 13 and 29 with UW/TV camera from CHANTICLEER if required by CTG 7.3. Report findings to CTG 7.3, CTU 7.3.1 and CTU 7.3.4. (Proj. 3.5).
28	D-1	1030	CTE 7.3.1.1	Lower gauge strings and camera from YFNB's 12, 13 and 29. (Projs. 1.2, 1.3 and 1.4).
29	D-1	1030	CTE 7.3.1.1	Lower PE and Wiancko gauges from LCM's at 2500' and 4100' stations. (Proj. 1.2).
30	D-1	1030	CTE 7.3.1.1	Lower gauge string from YC-473. (Proj 1.2.1).

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Operation Plan
CTG 7.3 No. 1-55

Appendix I to Annex A - Schedule of Events

<u>Event No.</u>	<u>Day</u>	<u>Hour</u>	<u>Event Coordinator</u>	<u>Description</u>
31	D-1	1030	CTE 7.3.1.1	Lower gauge strings from LCM's at 15,000', 19,000', 23,000' and 28,000'. (Proj. 1.3).
32	D-1	1030	CTE 7.3.1.1	Commence lowering ball crusher and mechanical pressure time gauges from BOLSTER for 5500', 3000' and 2000' stations for transfer to tow wire by LCM. (Proj. 1.2)
33	D-1	1030	CTE 7.3.1.1	Commence lowering ball crusher gauges from RECLAIMER for 3500', 5000' and 12,000' stations for transfer to tow wire by LCM. (Proj. 1.2)
34	D-1	1100	CTE 7.3.1.1	Lower camera for 3900' station from BOLSTER into water for transfer to tow wire by LCM. (Proj. 1.4).
35	D-1	1300	CTE 7.3.1.4	Complete checkout of YC-473 and prepare case for lowering when directed by CTG 7.3. (Projs. 4.1 and 4.4).
36	D-1	1400	CTE 7.3.1.4	Complete raising balloons to height and begin telemetering checks. (Proj. 4.5).
37	D-1	1415	CTU 7.3.1	Commence final timing and firing signal check. (Proj. as desired).
38	D-1	1500	CTU 7.3.1	Complete final timing and firing check-out. Program V inspect all stations after completing checks for battery replacement and servicing as required. (All projects desiring check).
39	D-1	1800	CTG 7.3	All projects evacuate all possible personnel from array. Personnel report to mustering supervisor on board assigned ships. (All projects and units).

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Operation Plan

CTG 7.3 No. 1-55

Appendix I to Annex A - Schedule of Events

<u>Event No.</u>	<u>Day</u>	<u>Hour</u>	<u>Event Coordinator</u>	<u>Description</u>
40	D-1	2000	CTU 7.3.1	Make report to CTG 7.3 completion of preparations for conduct of test less Program IV requirements.
41	D	0001	CTG 7.3	All ships begin continual muster of personnel leaving ships for entry into array. No personnel to be permitted to depart unless prior approval has been granted. (All projects).
42	D	H-8	CTG 7.3	Make final instrument checks, prepare to evacuate array by planned schedule beginning at H-7 as directed. (All projects).
43	D	H-7	CTU 7.3.1	Stand by YC-473 to assist CTE 7.3.1.4 and Project 4.2 prepare weapon for firing. (Proj. 4.1).
44	D	H-7	CTG 7.3	Begin planned evacuation of personnel from array. All ships maintain muster sheets for final reporting.
45	D	H-7	CTE 7.3.1.4	When directed by CTU 7.3.1, prepare weapon for IFI. (Proj. 4.2).
46	D	H-6	CTE 7.3.1.4	Complete IFI, supervise Project 4.1 closure of case. (Proj. 4.2).
47	D	H-6	CTE 7.3.1.4.	Lower weapon into position. (Proj. 4.1).
48	D	H-6	CTE 7.3.1.4	Attach instrumentation to weapon cable during lowering. (Proj. 4.4).
49	D	H-5½	CTE 7.3.1.7	Transfer YAG crews not required for early reboarding to MOLALA. MOLALA transfer personnel to LST-1048. Complete prior to H-4. (TE 7.3.1.7).

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Operation Plan
CTG 7.3 No. 1-55

Appendix I to Annex A - Schedule of Events

<u>Event No.</u>	<u>Day</u>	<u>Hour</u>	<u>Event Coordinator</u>	<u>Description</u>
50	D	H-4 $\frac{1}{2}$	CTU 7.3.2	Project officer brief AD-5N crews and observers.
51	D	H-4	CTG 7.3	Complete evacuation of all positions in array less YC-473 party. (All projects).
52	D	H-4	CTU 7.3.2	Project officer and assistant project officer transfer to YAG-40 by helicopter, arm drum buoy gear, set towed sampler string, and return to WRIGHT at H-2. (Proj. 2.1).
53	D	H-3 $\frac{1}{2}$	CTE 7.3.1.4	Evacuate YC-473 when directed by CTE 7.3.1.4. (Projs. 4.1, 4.4, and Prog. VI).
54	D	H-3 $\frac{1}{4}$	CTG 7.3	CO's of ships, program directors, project officers complete muster of personnel. Report presence of all personnel to CO's of assigned ships, CO's report muster to CTG 7.3. Personnel remaining on YC-473, YAG's 39 and 40, LCM's report direct to CTG 7.3.
55	D	H-3	CTU 7.3.1	Firing party board helicopter for transfer from CURTISS to YFNB-13. Then by LCM transfer to YC-473 and complete wiring systems when directed by CTE 7.3.1.4. (Proj. 4.2 and Program V).
56	D	H-2	CTE 7.3.1.7	CTE 7.3.1.7 rendezvous with MOLALA. Complete debarkation of all personnel except those selected to remain on board during transit of area. YAG's and MOLALA take assigned positions for entry into area in accordance with Appendix II to Annex E.

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Operation Plan
CTG 7.3 No. 1-55

Appendix I to Annex A - Schedule of Events

<u>Event No.</u>	<u>Day</u>	<u>Hour</u>	<u>Event Coordinator</u>	<u>Description</u>
57	D	H-2	CTU 7.3.2	Commence low level air soundings by helicopter. (CTU 7.3.2).
58	D	H-2	CTG 7.3	In assigned position for shot. (See Tab A). (All ships).
59	D	H-2	CTE 7.3.1.4	Report to CTU 7.3.1 and CTG 7.3 when YC-473 systems ready for firing. Evacuate YC-473 by LCM to YFNB-13 and then by helicopter to MOUNT MCKINLEY and CURTISS, leaving LCM secured to YFNB-13. (CTU 7.3.1, CTE 7.3.1.4, Proj. 4.2, Program V).
60	D	H-1	CTU 7.3.2	Launch AD-5N aircraft, assume initial flight pattern. Check out recording equipment. Report readiness to complete observations to CTU 7.3.2. (Projs 2.1 and 2.4).
61	D	H-1	CTU 7.3.5	Photographic aircraft on station. (RB-50; 3, C-54).
62	D	H-1	CTG 7.3	MT MCKINLEY, SMALL, MC KEAN prepare to track aircraft with FC and radar systems for scope photography. (Proj. 2.1).
63	D	H-45 Min.	CTG 7.3	When directed by CTG 7.3 activate automatic firing countdown signal system. (Program V).
64	D	H-10 Min.	CTG 7.3	RB-50 completes low level photographic runs. (TE 7.3.5.2).
65	D	H-5 Min.	CTG 7.3	MT MCKINLEY, SMALL, MC KEAN begin radar scope photography. (Proj. 2.1).
66	D	H	CTG 7.3	Shot hour.

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Operation Plan
CTG 7.3 No. 1-55

Appendix I to Annex A - Schedule of Events

<u>Event No.</u>	<u>Day</u>	<u>Hour</u>	<u>Event Coordinator</u>	<u>Description</u>
67	D	H+1 Min.	CTG 7.3	Deploy HORIZON towards SZ in accordance with operations schedule. (Appendix II to Annex A). When directed by Program II Deputy Director, begin oceanographic survey assisted by T-Boat. (TE 7.3.1.8).
68	D	H+1 Min.	CTG 7.3	Deploy YAG's 39 and 40 towards SZ in accordance with Appendix II to Annex E (TE 7.3.1.7).
69	D	When directed by CTG 7.3	CTG 7.3	Commence AD-5N aerial monitoring in accordance with Annex H, Appendix III. (Proj. 2.1).
70	D	H+15 Min.	CTU 7.3.2	Commence visual and radiological survey of array by helicopter. (Proj. 0.17).
71	D	H+35 Min.	CTE 7.3.1.7	Conduct radiological hazard monitoring survey on YAG's 39 and 40. (Proj. 2.4).
72	D	H+80, 158, 296 Min.	CTU 7.3.2	Transfer samples from YAG-40 to helicopter for delivery to WRIGHT. (Proj. 2.4 and CTU 7.3.2).
73	D	H+2	CTU 7.3.1	Collect aircraft dropped samplers from water by T-Boat and/or helicopter depending upon the radiological hazard conditions and delivery to WRIGHT. (Proj. 2.1 and CTU 7.3.2).
74	D	H+2	CTE 7.3.1.2	Accept water samplers from 2.1 on board WRIGHT, analyze portions of each sample on board. Prepare remaining portions for courier return to CONUS. See Annex H, Appendix III. (Proj. 0.17, 2.3, and 4.3).

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Operation Plan
CTG 7.3 No. 1-55

Appendix I to Annex A - Schedule of Events

<u>Event No.</u>	<u>Day</u>	<u>Hour</u>	<u>Event Coordinator</u>	<u>Description</u>
75	D	H+2 (R Hr)	CTG 7.3	As soon as R (re-entry hour) is set by CTG 7.3, all projects prepare to re-enter array and recover instrument records and salvage uncontaminated equipment. Continue until recalled. (All).
76	D	H+2½ (R+30 Min)	CTE 7.3.4.3	Survey condition of SQUAWS from CHANTICLEER as required by CTU 7.3.4. (Proj. 3.5)
77	D	When Directed by CTG 7.3	CTU 7.3.4	Commence disassembly of array and emerge SQUAWS. (CTU 7.3.4).
78	D	H+6	CTE 7.3.1.7	Monitor YAG's 39 and 40 for residual radiological contamination. If certified as safe by CTG 7.3, inform CTE 7.3.1.7 for crew embarkation and completion of basic plan. (Proj. 0.17).
79	D	H+6	CTE 7.3.1.2	YAG-40 continue sample collection. (TE 7.3.1.7).
80	D+1	0600	CTE 7.3.1.1	Continue recovery of instrumentation. Report completion to CTU 7.3.1. (Proj. 1.2).
81	D+1	0600	CTE 7.3.1.1	Complete recovery of instrumentation if possible. Report completion of recovery to CTU 7.3.1. (Proj. 1.2.1).
82	D+1	0600	CTE 7.3.1.1	Continue recovery of instrumentation and instrument LCM's. Return all salvageable craft to COMSTOCK. Report completion of recovery to CTU 7.3.1. (Proj. 1.3).
83	D+1	0600	CTE 7.3.1.8	Continue aerial surveys for surveillance of radioactive area in conjunction with TE 7.3.1.8. Report findings to Program II Deputy Director. (Proj. 2.1).

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Operation Plan
CTG 7.3 No. 1-55

Appendix I to Annex A - Schedule of Events

<u>Event No.</u>	<u>Day</u>	<u>Hour</u>	<u>Event Coordinator</u>	<u>Description</u>
84	D+1	0600	CTE 7.3.1.2	Continue analysis of radioactive samples, prepare and package samples delivered to WRIGHT by Project 2.1 for return to CONUS. (Projs. 0.17 and 2.3).
85	D+1	When directed by CTG 7.3	CTU 7.3.2	Return first load of samples to CONUS.
86	D+1	When directed	CTG 7.3	Designated destroyer depart operating area for Long Beach with CJTF SEVEN and Staff.
87	D+1	0600	CTE 7.3.1.7	Continue operations with TE 7.3.1.7 (YAG's 39 and 40). (Proj. 2.4).
88	D+1	0600	CTE 7.3.1.2	Collect fall-out samplers from YAG's, LCM's, moored buoys and YFNB's. Report findings to CTU 7.3.1. (Proj. 2.7).
89	D+1	0600	CTE 7.3.4.3	Stand by with UW/TV equipment on CHANTICLEER to conduct examinations as required by CTU 7.3.1 and CTU 7.3.4. (Proj. 3.5).
90	D+1	0600	CTE 7.3.1.4	Continue recovery of balloons assisted by LCM-37. (Proj. 4.5).
91	D+1	0600	CTE 7.3.1.6	Continue photographic coverage of all events. (Program VI).
92	D+2	When directed by CTG 7.3	CTU 7.3.2	Return second load of samples to CONUS.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

Tab:

A - Ship Stations at H-Hour

M. Rothlisberger
M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

A-I-10

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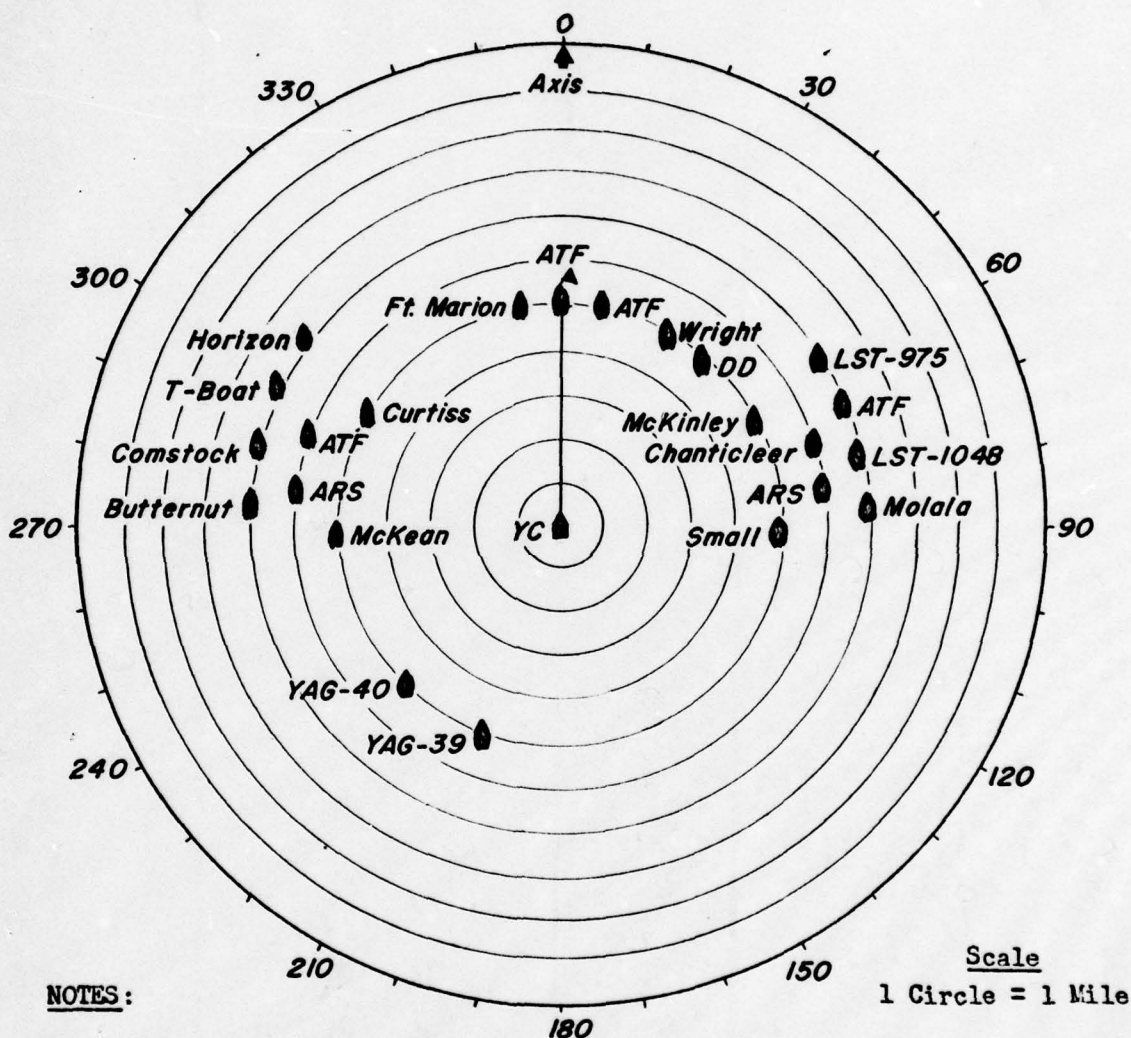
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OPERATION PLAN
CT6 7.3 No. 1-55

JOINT TASK FORCE SEVEN
TASK GROUP 7.3
WASHINGTON 25, D.C.
25 MARCH 1955; 1000R

Tab A to Appendix I to Annex A
Ship Stations at H-Hour



NOTES:

1. 5 DD's on Patrol, Paolina-T and Baird not shown.
2. SIO Buoy boat anchored at 310°T, 12 miles from YC.
3. Tow ATF guide for initial positioning of all ships, after which MT. MCKINLEY becomes guide only for CURTISS, FT. MARION, MCKEAN and SMALL. Station keeping tolerances for these ships is 2° in bearing and \pm 200 yards in range.

M. Rothlisberger
M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

CONFIDENTIAL

A-I-A-1

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[REDACTED]
Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Annex B

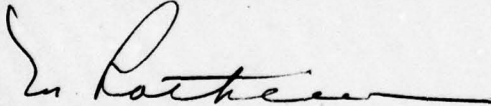
Organization and Command Relationships

The organization and command relationships of Joint Task Force SEVEN and Task Group 7.3 are depicted on the charts attached as appendixes listed below.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

Appendixes:

- I - Organization for Operation WIGWAM
- II - Organization, Task Group 7.3


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

B-1

[REDACTED]
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CONFIDENTIAL

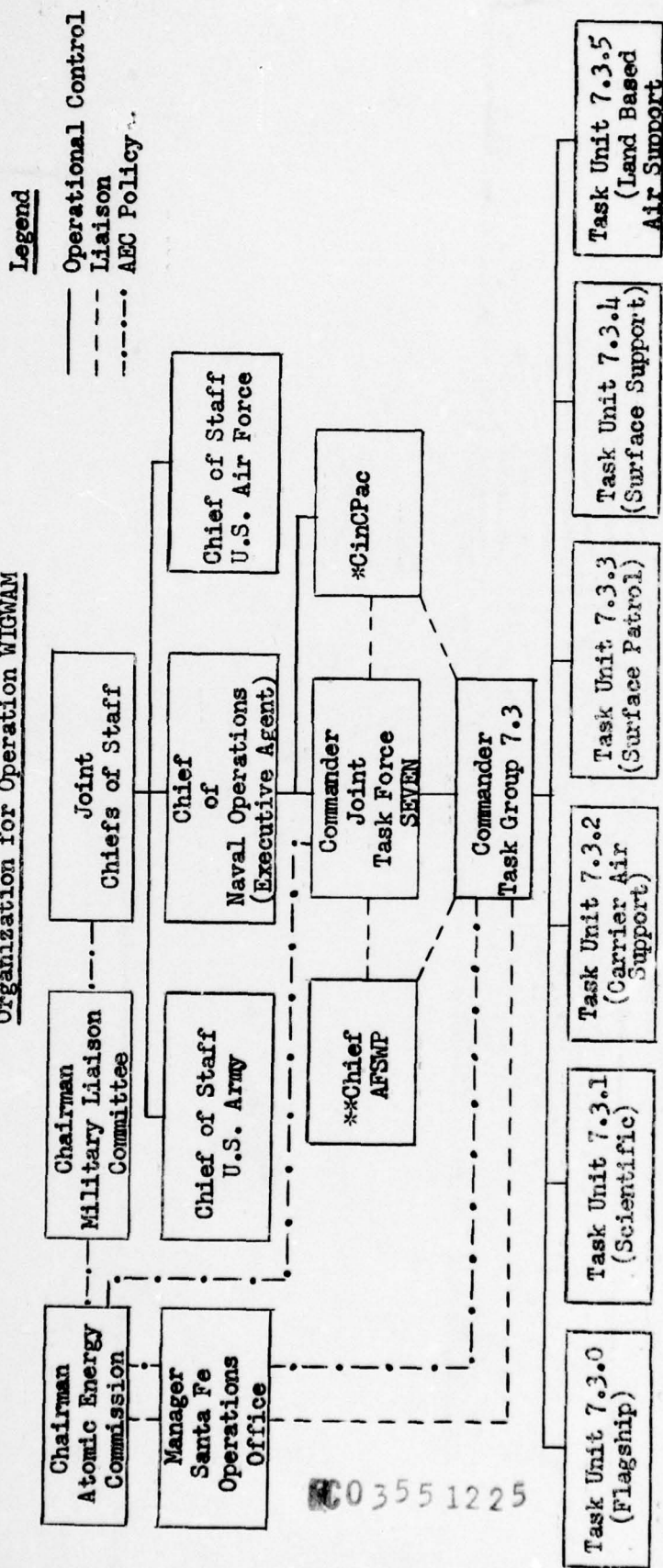
Operation Plan

CTG 7.3 No. 1-55

Joint Task Force SE
Task Group 7.3
Washington 25, D.C.
25 March 1955; 1000R

Appendix I to Annex B

Organization for Operation WIGWAM



NOTE: * By direction of the Commander Joint Task Force SEVEN, Commander Task Group 7.3 will report to Commander in Chief, Pacific (CinCPac) for movement control, logistic support and general security of the WIGWAM test area and the Task Force.

** By decision of the Joint Chiefs of Staff on 23 April 1953, the Chief of the Armed Forces Special Weapons Project (AFSWP) will exercise, within any Task Force organization, technical direction of the weapons effects tests of primary concern to the Armed Forces at atomic tests conducted outside the continental United States.

Robert
M. ROTHLSBERGER
LCDR, U. S. Navy
Flag Secretary

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JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

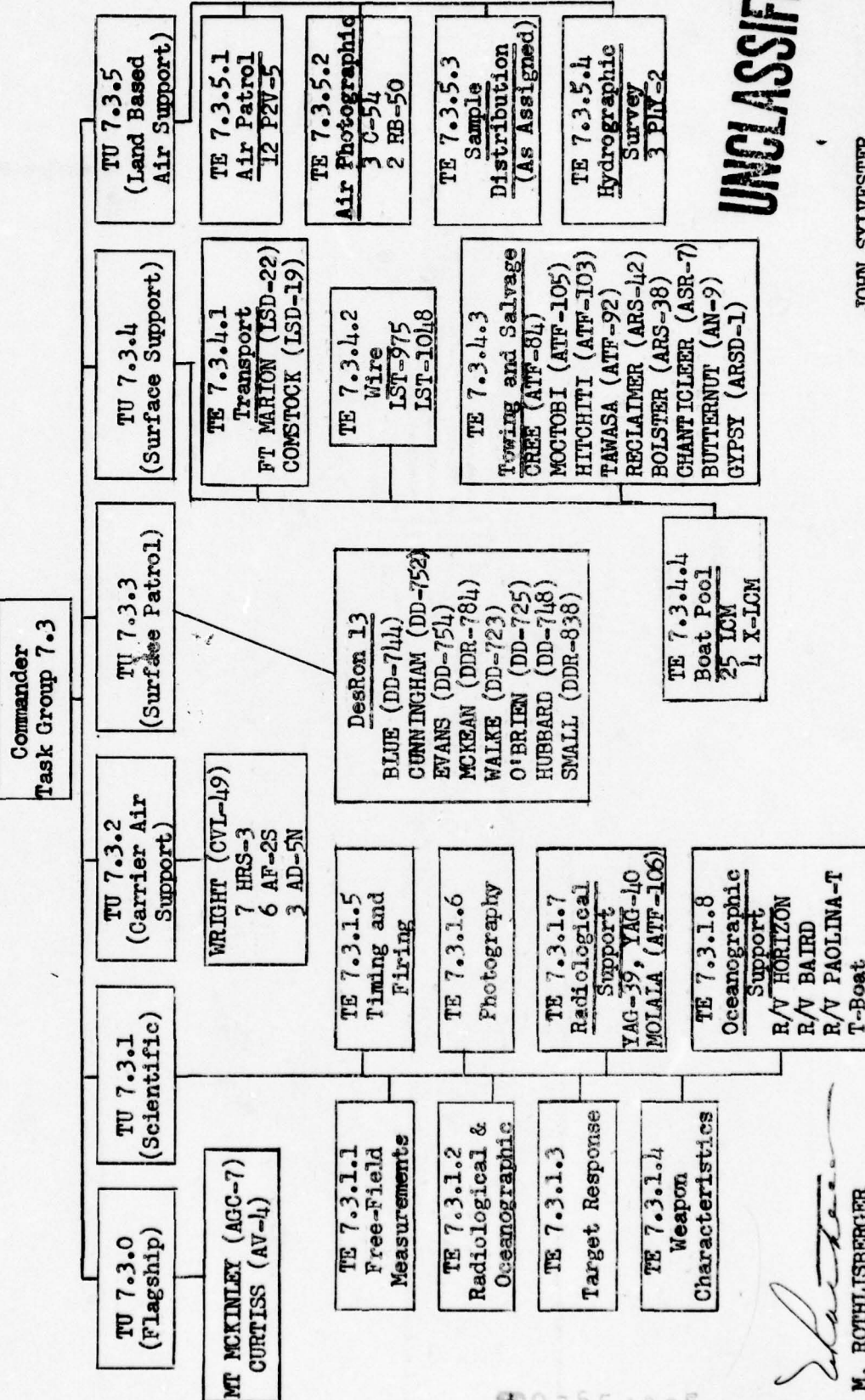
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Operation Plan
CIG 7.3 No. 1-55

Appendix II to Annex B

Organization of Task Group 7.3

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D.C.
25 March 1955; 1000R



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M. ROTHLSBERGER
LCDR, U. S. Navy
Flag Secretary

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

B-II-1

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Annex C

Communications and Electronics

100. General.

1. Communications in accordance with NWP 16, NWIP 16-1, JANAP's, ACP's and appropriate Navy Department publications. The numbering of paragraphs in this annex is the same as that of related matter in NWIP 16-1, except for paragraphs suffixed by the letter "x". NWP 16 and NWIP 16-1 are effective throughout as applicable to the existing situation except as modified or amplified by this annex.
2. This annex is effective for planning purposes upon receipt and for operations concurrent with activation of circuits listed herein and reporting of units to CTG 7.3 for operational control. Prior to the movement of CTG 7.3 from Washington, D. C., to San Diego, on or about 4 April 1955, the Chief of Staff, TG 7.3 located at the Special Projects Unit headquarters, building T-327, U.S. Navy Electronics Laboratory, San Diego is authorized to activate communications and electronics circuits listed in this annex and to direct use of the information contained herein as required to support WIGWAM.
3. TG 7.3 frequencies listed in this annex were assigned by the Chief of Naval Operations for WIGWAM use during the period 12 November 1954 to 15 June 1955.
4. A confidential version of this annex will be distributed during March 1955 for use by communications and electronics personnel who do not hold clearances for access to secret material.
5. A printed confidential booklet listing the task organization, voice circuits shown in Tab B to Appendix I to this annex and voice calls will be promulgated on 5 April 1955. These booklets should be kept available at all voice circuit stations after sortie for the final operational phase. The booklets will be serially numbered and accounted for to fix responsibility in event of loss.
6. Each ship and unit should prepare a circuit plan and watch bill based on requirements herein. Communications officers and supervisory personnel must be thoroughly familiar with appropriate portions of this plan.
7. Communication Officers of ships and units reporting to CTG 7.3 in San Diego for operational control, should visit the Special Projects Unit at NEL for briefing on Task Group 7.3 communication matters. A communication conference will be scheduled for late April.

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Annex C - Communications and Electronics

201. Installation and Maintenance of Electronic Equipment

1. Edgerton, Germeshausen & Grier, Inc., and the TG 7.3 Boat Pool will install Motorola and AN/VRC-10 equipment, respectively, listed in this annex. Ships will assist in installations and assume accountability for installed equipment.
2. Electronics equipment needed to meet requirements of this plan and back-up equipment, should be checked and repaired prior to reporting for operational control. Fire control, surface search and air search radars on the DDR's and the MT MCKINLEY will be employed in conjunction with scientific measurements and control of aircraft. Larger ships will assist smaller ships in effecting equipment repair where shore station support is not available or adequate. Report outages of equipment resulting in inability to meet operational requirements to CTG 7.3. CTG 7.3, if requested, will direct assistance in equipment repair. Several ET's are assigned to CTG 7.3 to assist projects and smaller ships.

202. Command Responsibility

1. Messages pertaining to any phase of Operation WIGWAM shall be classified in accordance with the "Classification Guide for Operation WIGWAM".
2. The number of officers authorized to release WIGWAM operational messages for ultimate transmission on CW or RATT circuits should be reduced to a practical minimum.
3. Commanding officers are not responsible for voice transmissions made by program and project personnel using equipment installed in ships for project use.
4. During periods TG 7.3 is at sea, WIGWAM operational ship/shore messages shall be relayed via the MT MCKINLEY.
5. Unless otherwise advised by commanding officers, the following personnel are authorized to release official messages and file direct with the Communication Watch Officer of any TG 7.3 ship:

Dr. A. B. Focke
Scientific Program Directors and Deputy Directors
Commanders and above attached to the staff of CTG 7.3

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Other official messages shall be released as directed by the commanding officer, who is requested to effect expeditious release and transmission of all messages originated by project officers and such personnel as they may designate to file project traffic.

6. Ships and units should maintain locator information on WIGWAM personnel assigned as passengers in order to effect prompt message delivery.

413. Net Procedure

1. TG 7.3 communication nets will be activated as required. The Net Control Station should obtain permission from CTG 7.3 or the Special Projects Unit, NEL to activate a net. Activated nets will be guarded continuously by all net stations except as indicated in Appendix I hereto. In addition, project manned radios are not required to be guarded outside of working hours, except during "at sea" periods, project channel ABLE radios should be guarded from 0730-2300 local time and continuously during the final 24 hours prior to SHOT time.
2. Permission to transmit on voice nets will not be required unless directed by the Net Control Station.
3. Speed keys are not authorized on TG 7.3 circuits.
4. The following infractions of net procedure are considered serious:
 - a. Use of improper language.
 - b. Personnel failure to man circuits as prescribed.
 - c. Breaches of security.

420. Visual Communications

1. Infrared signalling is not prescribed but may be used by ships making own schedules.
2. Messages classified "CONFIDENTIAL" (excluding "RESTRICTED DATA" and messages addressed to AEC activities) may be sent in the clear by visual means while in the WIGWAM operating area during May 1955, provided:
 - a. Ships comply with paragraph 2108 and section 2400 of AFSAG 1248.

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- b. The first word of the text, repeated twice, is the message classification.
- c. The heading contains the operating signal "ZMJ" meaning - "This message contains classified information. Do not transmit over non-approved circuits."
- d. That such messages are not subsequently encrypted in category "Baker" cryptographic systems.

431. Control of Electromagnetic Radiations

- 1. Radio, radar and IFF silence will not be imposed except that only telemetering, selected radars and time signals will radiate from ships from SHOT time minus 4 minutes until SHOT time plus 3 minutes. In addition, channel T-5 will be employed immediately after the shot. However, any TG 7.3 circuit may be used during this silence period for emergency reasons. During the silent period, the CURTISS will not radiate on any frequency (except OBOE 3).
- 2. The use of spark generating equipment in exposed places could seriously interfere with reception of scientific data and the testing of WIGWAM project equipment. Great care should be taken to locate and eliminate this type of interference.

433. Security

- 1. Net control stations report serious security violations to CTG 7.3.
- 2. CTG 7.3, with the assistance of the Security Unit, Imperial Beach, will monitor (at least partially) all circuits.
- 3. Communication personnel scheduled to handle classified WIGWAM traffic should receive a special briefing by the ship's security officer. It is important that the nature of Operation WIGWAM not be disseminated to unauthorized personnel.
- 4. The names of individuals are unclassified. The title "Doctor" should not be used on voice circuits.
- 5. Plain language radio transmissions of designators (e.g., TG 7.3, TU 7.3.1, and derivatives thereof) indicating the association of call signs with elements of TG 7.3 is not authorized. In addition, texts of unclassified messages shall not indicate by use of these designators that TG 7.3 units are operating in the San Diego area.

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CTG 7.3 No. 1-55

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434. Authentication

1. Authentication is prescribed for unclassified CONTACT and AMPLIFYING reports. Authentication may be employed on other type messages at the discretion of originators.
2. If authentication is employed, the following systems will be used:
 - a. Surface to Surface - AFSAG 1240/AFSAL 5107
 - b. Plane/ship and plane/plane - AFSAL 5104

438. Cryptographic

1. The two most common cryptographic violations observed on past operations of this type have been:
 - a. Repeating generatrix. A system to prevent this should be placed in effect.
 - b. Referring to a category "Baker" message in an unclassified message. This can be prevented by consecutively numbering category "Baker" messages, with only the CommCenter maintaining the date-time groups.
2. TG 7.3 ships and units hold cryptographic allowances in accordance with AFSAG 1250, with the following exceptions:
 - a. CTG 7.3 holds no cryptographic allowance. The Navy Department Cryptocenter is Crypto guard for CTG 7.3, U.S. Naval Gun Factory, Washington 25, D. C. NavCommSta, San Diego is crypto guard for Special Projects Unit, NEL and will be crypto guard for CTG 7.3 when located at NEL. The MT MCKINLEY (class 4 allowance) will be crypto guard for CTG 7.3 while he is embarked.
 - b. YAG-39 and YAG-40 hold a class 2 Pacific Afloat crypto allowance.
 - c. Naval Station, North Island is crypto guard for CTU 7.3.5 (C.O., VP-2).
 - d. A four station OTP system is held by the MT MCKINLEY and the Scripps vessels HORIZON, BAIRD and POLINA-T. This system will be activated concurrent with the activation of channel 1.

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3. The MT MCKINLEY will provide crypto machine repair service during the "at sea" period.
4. The U. S. Naval Security Group, Imperial Beach will monitor TG circuits for security violations.

440. Interference

1. Report serious circuit interference to CTG 7.3, furnishing as much information on probable source of interference as available.
2. Proper selection of antennae should eliminate interference between circuits listed in Appendix I. Interference will normally occur on high powered circuits below 30 MCS where frequencies are separated by less than 250 KCS, unless antennae are widely separated.

450. Call Signs

1. Employ call signs listed in Appendix II and appropriate JANAP's.
2. Where no confusion could exist, it is preferred that messages be addressed to ships in lieu of using Task Element calls. Except for use of the CTG 7.3 call, task designation calls shall not be employed on messages sent to activities outside of the Task Group. (exceptions - shore based activities in the 11th Naval District at San Diego).
3. Additional voice call signs and code words will be assigned by CTG 7.3 as needed.

500. Fleet Broadcasts

1. Ships arrange own broadcast guard until channel 1 is activated about early April 1955. Refer to Tab A, Appendix I.

600. Movement Reports

1. Movements of TG 7.3 ships to and from the WIGWAM operating area will be classified "CONFIDENTIAL". Movements to and from other operating areas off San Diego will be unclassified.
2. Movement Reports will be originated by:
 - a. Prior to final sortie for WIGWAM Operating Area - OTC.

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b. Final sortie:

- (1) CTG 7.3 for MT MCKINLEY, CURTISS and WRIGHT
- (2) CTE 7.3.1.7 for TE 7.3.1.7
- (3) CTU 7.3.3 for TU 7.3.3
- (4) CTU 7.3.4 for TU 7.3.4

c. Return to port from WIGWAM operating area - OTC (Senior Officer in entry group).

3. Final sortie and re-entry movement reports will be made in accordance with PACFLT-SUPP Article 125 to NWIP 16-1. Units engaged in salvage operations will not make PACFLT-SUPP Article 125 FINAL report until re-entry to port after completion of salvage operations. The order directing use of PACFLT-SUPP Article 125 report procedure will be the SORTIE PLAN.

4. Examples:

a. Departure report:

Confidential

From: Indefinite
To: MRC San Francisco
Info: CTG 7.3

TU 7.3.3 X COMDESRON 13 IN BLUE X CUNNINGHAM X EVANS X MCKEAN X WALKE X O'BRIEN X HUBBARD X ETD SDIEGO 281230Z X SMALL X ETD SDIEGO 081630Z X SPECIAL OPS X CTG 7.3 (DATE/TIME)Z X PACFLTSUPP-ART 125 X NPL DOG ROGER BROADCAST X COMDESRON 13 SENDS

b. Arrival report:

Confidential

From: Indefinite
To: MRC San Francisco
Info: CTG 7.3

RECLAIMER X BOLSTER X HITCHITI TOWING YFNB-12 X ETA LONG BEACH 211630Z X PACFLTSUPP-ART 125 FINAL X RECLAIMER SENDS

5. Movement reports subsequent to PACFLTSUPP-ART 125 FINAL will be made as directed by the command issuing the movement order.

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6. Do not use TG 7.3 task designators when filing unclassified movement reports.

700. Weather

1. The TG 7.3 Aerological Officer will prepare WIGWAM operating area weather forecasts, which will be disseminated to TG 7.3 via channel 1.
2. Routine weather reports from ships are not desired except when ships are more than 50 miles distance from the MT MCKINLEY. Report unusual or storm conditions in accordance with existing directives.
3. Weather reports are unclassified.
4. Refer to Annex "K" for further information on TG weather.

1130. Rehearsals

1. Voice Time Broadcast rehearsals will commence about 15 April 1955, using tones and a general announcement only. Complete broadcast rehearsals will be scheduled after sortie for the WIGWAM operating area. These schedules will be promulgated.
2. An interference test of TG 7.3 circuits, including scientific frequencies, is scheduled for about 18 April 1955, in conjunction with other rehearsals. A detailed plan for this test will be sent to participating units in early April.
3. Enroute to the WIGWAM operating area, continuous testing of all TG 7.3 circuits will be conducted.

1400. Aircraft Communications

1. This annex provides the basic aircraft radio circuit plan. Annex "H" provides additional information on circuit usage and reports required from aircraft.

1504. Mail

1. Guard Mail and Officer Messenger Mail

At San Diego, until 15 April 1955, utilize existing guard mail system. Deliver officer messenger mail direct to addressees. Commencing 15 April until completion of WIGWAM, the MT MCKINLEY is designated as the TG 7.3 guard mail and officer messenger mail center. The Commanding Officer, USS MT MCKINLEY, establish a guard mail system by directive, which will accomplish a twice daily exchange of guard mail between all TG 7.3 units located in the San Diego area commencing on 15 April and at sea once daily as practicable.

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CTG 7.3 No. 1-55

Annex C - Communications and Electronics

2. U. S. Mail

- a. U. S. Mail will not be subject to censor.
- b. Official mail for WIGWAM program and project personnel should be addressed to individuals care of: Special Projects Unit, Building T-327, U.S. Navy Electronics Laboratory, San Diego 52, California. This mail will be assorted by CTG 7.3 Staff personnel and routed to project offices for delivery. Personal mail may also be addressed in this manner or at the discretion of individuals.
- c. Effective on 1 April 1955 and until CTG 7.3 resumes Washington, D. C. location, continue to prepare correspondence for CTG 7.3 as before, however envelope address will be:

Special Project Unit
U.S. Navy Electronics Laboratory
San Diego 52, California

No indication of CTG 7.3 will appear on the exterior cover of the correspondence. This is necessary for security reasons to avoid disclosing the location of CTG 7.3.

- d. After final sortie for the WIGWAM operating area, personal mail will be dispatched from ships as inbound transportation becomes available and as authorized by CTG 7.3. Incoming mail will be delivered if transportation from San Diego to the area is available. The U.S. Mail Center during this period will be the WRIGHT.

1x. Delivery of Messages

1. Project personnel will be embarked in most TG 7.3 ships. On larger units, such as the CURTISS and MT MCKINLEY, an administrative office will be maintained to serve these personnel. Messages will be received addressed to the ship "For John Doe" or "For Project No." The ship is responsible for delivery of the message either to the administrative office or to the person addressed.

2x. Personnel

1. Notify CTG 7.3 if insufficient personnel are assigned to adequately man circuits on a watch-in-three basis. Additional non-communication personnel should be trained, if necessary, to man voice circuits.

3x. Class "E" Messages

1. The Class "E" message privilege is extended to TG 7.3 civilian personnel embarked. Releasing officers insure that such messages do not reveal classified information.

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Annex C - Communications and Electronics

4x. Telephones

1. Where practicable, ships arrange for telephone service while at piers in the San Diego harbor area.
2. A TG 7.3 San Diego telephone directory will be published. Notify the Special Projects Unit, NDL (telephone ACademy 2-6311, extension 770) of pertinent telephone numbers.

5x. Employment of Radars

1. CTU 7.3.3 direct employment of Surface Patrol Unit surface and air search radars (except for MC KEAN and SMALL when engaged in pre-arranged tracking of Project aircraft) to insure maximum effective air and surface coverage. CTG 7.3 CIC will keep Surface Patrol Units informed via channel 7 of TG 7.3 aircraft movements into and out of the area. In addition, Surface Patrol Unit CICs' listen on channel 6 to receive aircraft "IN" and "OUT" reports.
2. CTG 7.3 CIC will direct employment of TU 7.3.0, TU 7.3.2 and TU 7.3.4 surface and air search radars to insure maximum effective coverage and will coordinate tracking of unidentified ships and aircraft. During periods the MT MCKINLEY CIC is engaged in tracking Project aircraft, this responsibility will be assumed by the WRIGHT upon notification.
3. CIC equipped ships not given specific radar guardship assignments, employ air and surface search radars for maximum effective coverage.
4. Report radar equipment outages to controlling CIC.

6x. IFF Mode Assignments

1. All TG 7.3 aircraft, not under air controller scope control, employ IFF Mode 3 in the WIGWAG operating area.
2. C-54 type aircraft on photographic missions under scope pattern control employ IFF Modes as follows:
 - DAGO 1 - IFF Mode 1
 - DAGO 2 - IFF Mode 2
 - DAGO 3 - IFF Mode 3

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Annex C - Communications and Electronics

3. AD-5N type aircraft on survey missions under scope pattern control employ IFF Modes as follows:

SURVEY 1 (1 TREND) - IFF Mode 1
SURVEY 2 (2 TREND) - IFF Mode 2

7x. Reports

1. Upon completion of WIGWAM all ships and units submit a summary report of WIGWAM communications. Programs and projects are not required to submit these reports, but should include comments, if desired, in the program or project report. Reports should include the following information in addition to other material considered pertinent:

a. Weekly Traffic Volume Statistics

These figures should reflect the total number of incoming and outgoing messages (exclusive of tactical and voice radio transmissions to which no DTG's were assigned) received via radio or visual means and processed through the communications office.

WEEK ENDING (Commence tabulation on 15 April 1955)

Incoming 4/16 4/23 etc.
Plain
Confidential
Secret
Top Secret

Outgoing
Plain
Confidential
Secret
Top Secret


b. Indicate approximate percentage by precedence of messages handled in the following categories: Incoming plain, incoming classified, outgoing plain, and outgoing classified.

c. Communications problems encountered.

d. Evaluation of circuits, including interference.

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Operation Plan
CTG 7.3 No. 1-55

Annex C - Communications and Electronics

e. Comments on communications and electronics planning, adequacy of circuits and recommendations for future planning of a similar type operation.

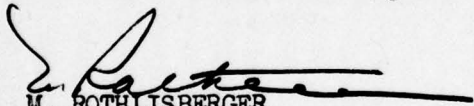
JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander

Appendixes:

I - Radio Frequency Plan

Tab A - Task Group 7.3 Radio Circuits
Tab B - Task Unit 7.3.1 Radio Circuits
Tab C - Frequency Index

II - Radio Call Signs and Code Words
III - Radio Time Signals


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary


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Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

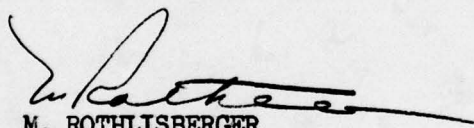
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Appendix I to Annex C

Radio Frequency Plan

1. Appendix I consists of the following:
 - a. Tab A - Task Group 7.3 Radio Circuits.
 - b. Tab B - Task Unit 7.3.1 Radio Circuits.
 - c. Tab C - Frequency Index.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander


M. ROTH LISBERGER
LCDR, U.S. Navy
Flag Secretary

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Operation Plan
CTG 7.3 No. 1-55

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25 March 1955; 1000R

Tab A to Appendix I to Annex C

TG 7.3 Radio Circuits

* - Indicates net or circuit control station.

Channel
No.

Circuit Description

Task Group CW Common

1A	Frequency: 474 KCS Stations: *CTG 7.3 (MT MCKINLEY) MT MCKINLEY CTU 7.3.2 (WRIGHT) CTU 7.3.3 (BLUE) CTU 7.3.4 (FT MARION)	Emission: 0.1A1 CURTISS DESRON 13
1B	Frequency: 2216 KCS Stations: *CTG 7.3 (MT MCKINLEY) MT MCKINLEY CTU 7.3.4 (FT MARION) COMSTOCK LST 975 LST 1048 BOLSTER RECLAIMER CHANTICLEER CREE GYPSY	Emission: 0.1A1 HITCHITI MOCTOBI MOLALA TAWASA HORIZON BAIRD PAOLINA-T YAG-39 YAG-40 BUTTERNUT

Description: Circuit will be activated on order about 15 April 1955. Ships with three or more CW operators maintain continuous guard; other ships in accordance with the following schedules (local times):

One Operator

0800 - 0930
1300 - 1400
1800 - 1900
2300 - 0000
0600 - 0700

Two Operator

0800 - 1100
1300 - 1600
1800 - 2000
2300 - 0100
0500 - 0700

Guardship arrangements on this circuit are not authorized unless ships are berthed in the immediate vicinity of each other and prompt delivery service is provided. The MT MCKINLEY will

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Operation Plan
CTG 7.3 No. 1-55

Tab A to Appendix I to Annex C - TG 7.3 Radio Circuits

Channel
No.

Circuit Description

- assume net control on both channels when CTG 7.3 is not embarked. Net control will relay traffic between channels
• 1A and 1B and adjust assignment of ships to these channels as necessary to prevent overload. Message relay instructions are required for all relay traffic.

Speed keys are not authorized for use on any TG 7.3 CW circuit. Messages addressed to two or more circuit addressees should be transmitted at about 18 WPM or slower if there are numerous addressees.

"Routine" and "Deferred" messages addressed to two or more channel addressees observing different operator schedules shall be held until complete channel delivery can be effected with one transmission. Effect delivery of "Priority" or higher precedence traffic as received. Utilize voice nets to activate channel guard during one or two operator secured periods as necessary to expedite delivery of "Operational Immediate" or higher precedence traffic.

The TG 7.3 CW Common will be employed to send Fox guard traffic, selected general messages, special area weather and normal ship to ship and ship to shore traffic. Net Control will maintain a channel waiting list in accordance with message precedence and the order in which requests are received.

Net control will require strict adherence to schedules and will maintain a call sign schedule check-off list. Unless otherwise advised of pending traffic stations may secure from these channels at scheduled times without specific permission from net control.

MT MCKINLEY - NAVCOMSTA SDIEGO Duplex RATT

2A	Frequency:	4340	KCS	Emission:	1.24F1	Assign:	AGC Send
2B		5335	KCS		"		NCS Send
2C		8594	KCS		"		AGC Send
2D		10255	KCS		"		NCS Send
2E		12768	KCS		"		AGC Send
2F		15525	KCS		"		NCS Send
2G		17261.6	KCS		"		NCS or AGC

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Operation Plan
CTG 7.3 No. 1-55

Tab A to Appendix I to Annex C - TG 7.3 Radio Circuits

Channel
No.

Circuit Description

Stations: *ComCen, NavCommSta, SDiego (11th NavDist Hqs.
Bldg)
MT MCKINLEY (Radio 1)

Description: Activate half duplex handline teletype circuit when needed during periods MT MCKINLEY is berthed at the Naval Station, San Diego. Shift to duplex RATT during underway periods. BWDC transmit MT MCKINLEY guard list traffic, not required to be placed on the NPL RATT Broadcast for other addressees, via this circuit. During periods the NPL RATT Broadcast cannot be received in the WIGWAM operating area, BWDC will be notified to deliver all TG 7.3 traffic via this circuit. MT MCKINLEY NTX routing indicator is BWDWF.

FLEWEACEN, NAS, SDIEGO, Facsimile Broadcast (A1.1 JANAP 195)

3A	Frequency:	4259 KCS (ALCOM 53)	Emission:	4F4
3B		8518 KCS (ALCOMS 101;104)		"
3C		12777 KCS (STANDBY)		"
3D		17740 KCS (STANDBY)		"
3E		23650 KCS (STANDBY)		"
	Stations:	FleWeaCen, San Diego send MT MCKINLEY receive		

Description: Activate circuit on 1 April 1955. The Fleet Weather Central will simultaneously transmit on two frequencies, a total of about 64 weather maps daily, utilizing transmitters at Chollis Heights. Transmissions will be monitored at the Fleet Weather Central to insure propagation. MT MCKINLEY receive in the Aerological Office and provide back-up (on second frequency) at any other location on board. MT MCKINLEY back-up equipment for this circuit will also be used to receive other area facsimile broadcasts as required by the Task Group Weather Officer. MT MCKINLEY notify FleWeaCen via "O" precedence message (during "at sea" periods) sent on channel 2 in event of unsatisfactory map reception. During periods of unsatisfactory circuit operation, the FleWeaCen will transmit coded map information to BWDC for relay to MT MCKINLEY on channel 2.

Facsimile paper for both circuit terminals will be supplied by CTG 7.3.

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Operation Plan
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Tab A to Appendix I to Annex C - TG 7.3 Radio Circuits

Channel
No.

Circuit Description

Facilities at the FleWeaCen, San Diego will be further augmented for WIGWAM by installation of a teletype drop on Air Force circuit 9895.

Air Patrol Net (CW)

4A	Frequency:	3039 KCS (Primary)	Emissions:	0.1A1
4B		4470 KCS (Secondary)		0.1A1
4C		9035 KCS (Secondary)		0.1A1

Stations: *CTG 7.3 (MT MCKINLEY - 4A in CIC; 4B in Radio 1)
CTU 7.3.2 (WRIGHT-CIC)-(Optional or as directed)
CTU 7.3.5 (FAW 14 Base Radio - NAS San Diego)
TU 7.3.5 Aircraft

Description: Guard continuously concurrent with commencement of TU 7.3.5 aircraft missions. FAW 14 Base Radio will guard all channels continuously. CTG 7.3 (MT MCKINLEY) will guard channel 4A in CIC and channel 4B in Radio 1. Aircraft utilize channel 4A for positions, weather and routine reports. Shift to channel 4B if 4A is overloaded and to channel 4C only when atmospheric conditions require. Report contacts to CTG 7.3 via channel 6B (339.4 MCS). Be prepared to shift to channel 9(289.8 MCS), when directed for contact coordination between aircraft and ships. Channel 4B will be used to pass air operational traffic between the MT MCKINLEY and CTU 7.3.5. CTG 7.3 (MT MCKINLEY) will guard for the TG 7.3 Weather Forecasting Team in the MT MCKINLEY; CTU 7.3.5 will guard for the TG 7.3 Weather Central adjacent the Fleet Weather Center, Naval Air Station, San Diego. Hot line telephone circuits connect CTU 7.3.5 Operations and the TG 7.3 Weather Central with FAW 14 Base Radio Station.

TG 7.3 Base Radio Net

5A	Frequency:	5080 KCS (Primary)	Emissions:	6A3
5B		3151 KCS (Secondary)		6A3
5C		3385 KCS (Spare)		6A3

Stations: *CTG 7.3 (MT MCKINLEY-CIC or JOC)
CTU 7.3.2 (WRIGHT-CIC)-(Optional or as directed)

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Operation Plan
CTG 7.3 No. 1-55

Tab A to Appendix I to Annex C - TG 7.3 Radio Circuits

Channel
No.

Circuit Description

CTU 7.3.5 (FAW 14 Base Radio-NAS, San Diego)
TU 7.3.5 aircraft (as required or directed)
WRIGHT based aircraft

Description: Guard continuously concurrent with commencement of TU 7.3.5 aircraft missions. TU 7.3.5 aircraft may use this channel as a back-up to channel 4 or where long range voice communications is desired. NOTE: CTU 7.3.2 may direct WRIGHT based aircraft to employ channel 5A, channel 5B or channel 16C as secondary to assigned UHF channels.

Tactical Air Traffic Control (TATC) Net

6A Frequency: 339.4 MCS Emission: 6A3
 Stations: *CTG 7.3 (MT MCKINLEY-JOC)
 TG 7.3 UHF equipment aircraft

Description: All UHF aircraft within UHF range of the MT MCKINLEY make "IN" and "OUT" reports to LAZARUS via this channel. Unless directed to shift to a control frequency remain on this channel while in the operating area.

TG Coordination Net

7A Frequency: 2656 KCS Emission: 6A3
 Stations: *CTG 7.3(MT MCKINLEY-CIC or JOC)
 CTU 7.3.2 (WRIGHT-CIC) (Optional or as directed)
 CTU 7.3.3 (BLUE-CIC)
 DESRON 13

Description: Activate during periods two or more of above stations are underway on WIGWAM missions. Coordinate contact reports via this channel.

Combat Information Net

8A Frequency: 289.8 MCS Emission: 6A3
 Stations: *CTG 7.3 (MT MCKINLEY)
 All TG 7.3 CIC equipped ships when underway in company.

Description: OTC is net control.

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Communication Plan
CTG 7.3 No. 1-55

Tab A to Appendix I to Annex C - TG 7.3 Radio Circuits

Channel
No.

Circuit Description

Tactical Net

9A Frequency: 285.8 MCS Emission: 6A3
 Stations: *CTG 7.3 (MT MCKINLEY)
 All TG 7.3 ships less SCRIPPS M/V's.

Description: Guard at bridge location commencing one-half hour prior to getting underway. Ships with insufficient equipment to guard channels 9 and 10 will normally guard channel 9 while underway.

Administrative Net

10A Frequency: 277.8 MCS Emission: 6A3
 Stations: *CTG 7.3 (MT MCKINLEY)
 All TG 7.3 ships less SCRIPPS M/V's, YAG's.
 (BLUE, CUNNINGHAM, EVANS, O'BRIEN, HUBBARD and
 WALKER maintain listening watch when channels
 8 and 9 are activated. Shift transmitter to
 channel 10 if required)

Description: Activate while under CTG 7.3 Op control. Utilize net for passing official traffic and as a back-up for channel 9.

Tactical Air Direction Nets

11A TAD #1 Frequency: 236.2 MCS Emission: 6A3
11B TAD #2 Frequency: 349.0 MCS Emission: 6A3
11C TAD #3 Frequency: 356.2 MCS Emission: 6A3
 Stations: *CTG 7.3 (MT MCKINLEY-CIC)
 UHF equipped aircraft as assigned by
 the TG 7.3 Air Controller.

Description: TG aircraft under CIC control will be directed by the Air Controller to guard one of these channels, VP, P4Y and HRS type aircraft will not normally be required to guard channel 11 frequencies.

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Operation Plan
CTG 7.3 No. 1-55

Tab A to Appendix I to Annex C - TG 7.3 Radio Circuits

Channel
No.

Circuit Description

Helicopter Net

12A	Frequency: 344.2 MCS (Primary)	Emission: 6A3
12B	Frequency: 318.6 MCS (Secondary)	Emission: 6A3
	Stations: CTG 7.3 (MT MCKINLEY-CIC)	
	*CTU 7.3.2 (WRIGHT)	
	HRS 1-9	
	CURTISS (12A only)	
	FT MARION (12A only)	
	YAG-39 (12B only as required)	
	YAG-40 (12B only as required)	

Description: HRS will operate on channel 12A unless directed to shift to 12B. HRS assigned to Project 2.4 will operate on channel 12B while on missions requiring communications with YAG's (e.g. Sample pick-up). HRS make "IN" and "OUT" reports to the TG 7.3 Air Controller on channel 6B.

Carrier Land/Launch Net

13A	Frequency: 237.8 MCS	Emission: 6A3
	Stations: *WRIGHT	
	WRIGHT based aircraft	

Description: For land/launch communications between aircraft utilizing WRIGHT flight deck; use as directed by CTU 7.3.2.

NPL "DOG ROGER" Broadcast

14A	Frequency: 3303 KCS	Emission: 1.24F1 and 1.08F1
14B	6397 KCS	Emission: 1.24F1 and 1.08F1
	Stations: CTG 7.3 (MT MCKINLEY)	
	MT MCKINLEY - GUARDSHIP	
	TG 7.3 RATT equipped ships (others arrange guard)	

Description: Refer to circuit B8.2 JANAP 195(D). All TG 7.3 ships in the San Diego area arrange to receive this broadcast

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Operation Plan
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Tab A to Appendix I to Annex C - TG 7.3 Radio Circuits

Channel
No.

Circuit Description

continuously concurrent with commencing guard on channel 1. Ships not equipped with RATT arrange guard direct with the MT MCKINLEY, unless sufficient communications personnel are assigned to guard designated Task Group circuit continuously and also circuit B8.1 JANAP 195(D). It is expected that, during May, the task group will operate beyond range of circuit B8.1. The MT MCKINLEY will furnish guard mail copies of this broadcast to guard list and as requested. Guard traffic will be relayed via channel 1 or delivered via guard mail, as appropriate.

NPL Ship/Shore

15A	Frequency: 2716 KCS	Emission: 6A3
15B	2836 KCS	0.1A1
	Station: MT MCKINLEY (TG 7.3 guardship)	
	TG 7.3 Ships - Optional	

Description: MT MCKINLEY maintain communications with NPL on this channel at all times (either 15A or 15B). Employ circuit as necessary to keep channel 2 in operation. Other TG 7.3 ships are not required to guard these channels; however, non-operational ship/shore traffic should be passed via this means when TG 7.3 channels are overloaded. Use of circuit A1, JANAP 195(D) is not authorized.

Search and Rescue

	<u>Frequency</u>	<u>Emission</u>	<u>Guarded by</u>
16A	500 KCS	0.1A1	CTG 7.3 (MT MCKINLEY) or OTG
16B	8364 KCS	0.1A1	CTG 7.3 (MT MCKINLEY) or OTG
16C	3023.5 KCS	6A3(Or 0.1A1)	CTG 7.3 & CTU 7.3.2 as necessary
16D	121.5 MCS	6A3	All 7.3 VHF equipped aircraft and manned CIC's.
16E	243.0 MCS	6A3	All TG 7.3 UHF equipped aircraft and manned CIC's.

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Operation Plan
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Tab A to Appendix I to Annex C - TG 7.3 Radio Circuits

Channel
No.

Circuit Description

Description: TG 7.3 aircraft report emergencies via normal communication channels. Shift to search and rescue frequencies as directed or as required to establish communications.

Boat Pool Net

17A Frequency: 44.0 MCS Primary Emission: F3
17B 46.0 MCS Secondary F3
17C 48.0 MCS (Special Missions) F3
Stations: CTG 7.3 (MT MCKINLEY - Flag Plot)
*BOAT DISPATCHER (FT MARION; remote to CTU
7.3.4 - Flag Plot)
COMSTOCK (Radio Central; remote as directed)
YFNB (to be designated) (Radio Room)
Issue one AN/PRC-10 pack set each to COMSTOCK,
CURTISS, WRIGHT, LST 975, LST 1048, CHANTICLEER,
YFNB's, YC 473 and as required TG 7.3 Boat Pool
LCM's.

Description: Boat Pool secondary is SIO primary (refer channel KING). Channel 17C will be used as a scientific net or for special missions. AN/PRC-10 pack sets operating on these channels may be drawn from the TG 7.3 Boat Pool.

AGC - AV Radiotelephone

18A Frequency: 88.8 MCS Emission: 6A3 Assign: AGC Xmit.
18B 92.8 MCS Emission: 6A3 Assign: AV-4 Xmit.
Stations: *MT MCKINLEY
CURTISS

Description: Activate three voice channels using AN/TRC-1 equipment on 1 May 1955 if frequencies are clear in the San Diego area; otherwise when both ships are 60 miles from San Diego enroute to the WIGWAM area. Assign competent switchboard operators who will caution own party " This is a radio circuit; only unclassified information is permitted" prior to completing

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~~Plan~~
CTG 7.3 No. 1-55

Tab A to Appendix I to Annex C - TG 7.3 Radio Circuits

b. Helicopters.

<u>TG 7.3 Channel No.</u>	<u>Aircraft Channel No.</u>	<u>Frequency</u>	<u>Use</u>
---	1	233.8*	Navy Tower Primary
11A	2	236.2	TAD #1
12A	3	344.2	HRS Control Primary
12B	4	318.6	HRS Control Secondary
10A	5	277.8	TG 7.3 Administrative (Voice Time Broadcast)
13A	6	237.8	Carrier Land/Launch
---	7	339.4	TATC Net
---	8	257.8*	Approach Control - North Island
16E	GUARD	243.0	Emergency and Distress

* - Indicated frequencies are to be employed only in connection with use of airfields. Frequency bands 217-234 MCS and 250-270 MCS are reserved for scientific data systems and must remain free of interference in the WIGWAM operating area.

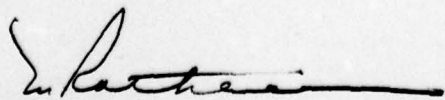
Carrier based aircraft only will be required to use this channel.

c. Photo and VHF equipped aircraft.

---	1	137.88	Control Primary
---	2	132.30	Control Secondary; North Island Control Tower
	3	142.74	North Island Control Tower
	GUARD	121.5	Emergency and Distress

NOTE: Air Controllers pass selected voice time broadcast announcements to VHF equipped aircraft on control circuits.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander


M. ROTH LISBERGER
LCDR, U.S. Navy
Flag Secretary

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Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Tab B to Appendix I to Annex C

TU 7.3.1 Radio Circuits

1. Voice Nets.

a. General

(1) Motorola Installation and Maintenance

EG&G will provide, install and maintain Motorola equipment (except for channel LOVE and portions of channels GEORGE and TARE) in accordance with circuit plan in paragraph 1b below. The TG 7.3 Communications Officer will coordinate installation. TG 7.3 ships assist in selecting exact radio locations and in effecting shipboard installations. Stations requiring set maintenance, return set to EG&G and draw replacement. Users are not authorized to effect equipment repairs other than to replace set fuzes.

(2) Portable Equipment

In addition to establishing circuits listed herein, a limited number of portable equipments are available for issue, as follows:

- (a) Motorola pack sets and handy-talkies - available at EG&G radio shop (trailer).
- (b) AN/PRC-10 - available at the Boat Pool radio shop to operate on channels 17A, 17B or 17C.
- (c) Spare batteries may be drawn at the above locations.
- (d) The Motorola pack set is the only portable equipment available with a built in speaker.

(3) Security

Voice circuits are not cleared for transmission of classified information. Particular care must be exercised in the San Diego area, since monitoring by unauthorized persons will undoubtedly occur. Any serious violation will result in shutting down the net or a station on the net, during operations in the San Diego harbor area.

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Operation Plan
CTG 7.3 No. 1-55

Tab B to Appendix I to Annex C - TU 7.3.1 Radio Circuits

(4) All voice radios will be labelled "Transmit UNCLASSIFIED information only."

(5) Net Procedure

Abbreviated voice procedure instructions will be issued. Users are requested to enunciate clearly and keep conversations on busy nets short and to the point. All transmissions are official in nature. The senior person at (controlling each station) is responsible that persons using the station radio understand net procedure.

Unless otherwise directed by the net control station, permission of the net control station is not required prior to use of the net.

(6) Boat Pool Radios

The TG 7.3 Boat Pool will provide, install and maintain AN/VRC-10 and AN/PRC-10 radios.

(7) Shot Time Procedure

Except in an emergency, all voice transmissions on these nets, except for use of channel TARE 5 after detonation and the voice broadcast on channel ABLE, will cease between -4 minutes and +3 minutes.

(8) Except for radios approved for expenditure, projects remove Motorolas from Sites 1A, 1B, 2A, 2B, and YC-473 concurrent with evacuation of the array prior to SHOT time. Radios installed in array units during SHOT times must be secured for shock protection.

b. Circuits

Unless otherwise indicated, Motorola radios will be either LOW or 25W. * - Indicates net control station.

Channel
Designation

Circuits

ABLE

Technical Net

Frequency: 152.87 MCS
Stations: *CTG 7.3 (NEL Office)

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Operation Plan
CTG 7.3 No. 1-55

Tab B to Appendix I to Annex(- TU 7.3.1 Radio Circuits

Channel
Designation

Circuits

*CTG 7.3 (NEL)
*CTG 7.3 (MT MCKINLEY Flag Plot; remote
to Flag Comm - 04 deck and to Program
II - JOC)
CTU 7.3.2 (Helicopter Scheduling; remote
to WRIGHT bridge)
CTU 7.3.3 (BLUE-Bridge)
CTU 7.3.4 (FT MARION-Bridge; remote to
Flag Plot)
Boat Dispatcher (FT MARION)
CURTISS (Port Flag Office; remote to Bridge)
CHANTICLEER (Bridge)
COMSTOCK (Radio Central; remote to Bridge)
MOLALA (Bridge)
RadlSafe Office (WRIGHT Ready Room #2; re-
mote to Project 2.4 Office)
EG&G Control Room (MT MCKINLEY)
YC-473 (Remote to track area)
YFNB-12 (Radio Room)
YFNB-13 (Radio Room)
YFNB-29 (Radio Room)
Three pack sets; three handy-talkies
Scientific Projects requiring Voice Time
Broadcast will be added to this net.

Description: Complete installations concurrent with ships
and projects reporting to CTG 7.3. Net
provides a means to coordinate scientific
and logistic requirements between projects
and the Scientific Unit Staff. Official
traffic assigned date time groups will not
normally be passed via this net.

CHARLIE

Surface Support Net

Frequency: 158.51 MCS
Stations: CTG 7.3 (MT MCKINLEY-Flag Plot; remote
to Flag Communications)
*CTU 7.3.4 (FT MARION-Bridge; remote to
Flag Plot)
COMSTOCK (Bridge)
CREE (ATF-84)-(Bridge)
MOCTOBI (ATF-105)-(Bridge)
HITCHITI (ATF-103)-(Bridge)

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Operation Plan
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Tab B to Appendix I to Annex C - TU 7.3.1 Radio Circuits

Channel
Designation

Circuit

TAWASA (ATF-92)-(Bridge)
MOLALA (ATF-106)-(Bridge)
RECLAIMER (ARS-42)-(Bridge)
CHANTICLEER (ASR-7)-(Bridge)
BOLSTER (ARS-38)-(Bridge)
BUTTERNUT (AN-9)-(Bridge)
LST-975 (Bridge)
LST-1048 (Bridge)
CURTISS (Port Flag Office)
YC-473 (Remote to living area)
YFNB-12 (Radio Room; remote to Control Station)
YFNB-13 (Radio Room; remote to Control Station)
YFNB-29 (Radio Room; remote to Control Station)
Two pack sets; one handy talkie

Description: This net provides CTU 7.3.4 with positive communications for array rigging and operational control. Net frequency is not cleared for use in the Los Angeles area (within 50 miles).

DOG

Tow and Salvage Net

Frequency: 159.05 MCS
Stations: *CTU 7.3.4 (FT MARION Bridge; remote to Flag Plot)
CTG 7.3 (MT MCKINLEY Flag Plot)
HITCHITI (ATF-103)-(Bridge)
CREE (ATF-84)-(Bridge)
MOCTOBI (ATF-105)-(Bridge)
TAWASA (ATF-92)-(Bridge)
RECLAIMER (ARS-38)-(Bridge)
GYPSY (ARSD-1)-(Bridge)
BUTTERNUT (AN-9)-(Bridge)
YFNB-12 (Radio Room; remote to Control Station)
CHANTICLEER (ASR-7)-(Bridge)
BOLSTER (ARS-38)-(Bridge)

C-I-B-4

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Operation Plan
CTG 7.3 No. 1-55

Tab B to Appendix I to Annex C - TU 7.3.1 Radio Circuits

Channel
Designation

Circuit

YFNB-13 (Radio Room; remote to Control Station)
YFNB-29 (Radio Room; remote to Control Station)
LCM assigned SQUAW assist. (LOW Battery)
Four pack sets; one handy talkie

Description: Tow, SQUAW lowering operations and salvage communications will be transmitted via this net. During Squaw lowering operation, stations not participating are not to use this net. This frequency is cleared for use in the Los Angeles and San Diego area.

EASY

RADLSAFE

Frequency: 157.91 MCS
Stations: WRIGHT (RadlSafe Office - Ready Room #2; remote to Program II radar location)
*MT MCKINLEY (Program II Plot-JOC; remote to Strategic Plot)
Two pack sets; one handy talkie

NOTE: This frequency is not cleared for the San Diego harbor area.

Description: RadlSafe information channel between CTG 7.3, Program II and Program O.17. EG&G will install antenna to YAG-39 Control Room to permit pack set operations on this net.

GEORGE

Project 2.4 Net

Frequency: 153.35 MCS
Stations: MT MCKINLEY (JOC-Program II Plot)
*WRIGHT (Project 2.4 Office; remote to Ready Room #2)
YAG-39 (Radio Control Room; remote to Radio Room; Bridge and Secondary Control)
YAG-40 (Radio Control Room; remote to Radio Room; Bridge and Secondary Control)

C-I-B-5

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Operation Plan
CTG 7.3 No. 1-55

Tab B to Appendix I to Annex C - TU 7.3.1 Radio Circuits

Channel
Designation

Circuit

MOLALA (ATF-106)-(Bridge)
HORIZON (Bridge)
BAIRD (Bridge)

NOTE:

EG&G install sets in MT MCKINIEY,
WRIGHT, HORIZON and BAIRD: furnish
radios and crystals to NRDL for re-
mainder of installations

Description: Project 2.4 will utilize a portion of this
net in the San Francisco area commencing
January 1955. NRDL will install Motorolas
required for use at San Francisco

HOW

Sandia Net

Frequency:

160.20 MCS
*Sandia Trailer
YFNB-12 (Sandia Space)
YC-473 (Sandia Space) (10W Battery)
COMSTOCK
Site 1A (Sandia LCM) (10W Battery)
Site 2A (Sandia LCM) (10W Battery)
Two pack sets; one handy talkie

Description: Install during March as required by Project
4.5. Shift trailer radio to channel ABLE
at -2 hours to permit reception of the voice
time broadcast.

ITEM

NRL-NOL Net

Frequency:

Stations:

161.33 MCS
NRL Laboratory (NEL)
*NRL Trailer (Remote to CURTISS space
designated by P. Walsh)
YC-473 (NRL Trailer)
YFNB-12 (NOL Trailer)
YFNB-13 (NOL Trailer)
YFNB-29 (NOL Trailer)

C-I-B-6

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CTG 7.3 No. 1-55

Tab B to Appendix I to Annex C - TU 7.3.1 Radio Circuits

Channel
Designation

Circuit

Site 1B (NRL LCM) (LOW Battery)
Site 2B (NOL LCM) (LOW Battery)
two pack sets; one handy talkie

Description: Activate net about 15 March 1955. Shift
NRL CURTISS trailer radio to channel ABLE
at -2 hours to permit reception of the voice
time broadcast.

JIG

EG&G Net

Frequency: 153.89 MCS
Stations: EG&G Office (NEL)
*Control Room (MT MCKINLEY)
EG&G Trailer (Pier 5 NavSta then
WRIGHT)
YC-473 (EG&G Space)
YFNB-12 (EG&G Space)
YFNB-13 (EG&G Space)
YFNB-29 (EG&G Space)
Sites 6, 7, 8, and 9 (Project 1.3)-
(Pack Sets)
One pack set; one handy talkie

Description: This net will be used jointly by EG&G and
Project 1.3. EG&G radios on YFNB's should
be made available to Project 1.3 personnel.

KING

SIO Net (AN/VRC-10 and AN/PRC-10)

Frequencies: CHANNEL 17B - 46.0 MCS (Primary)
CHANNEL 17A - 44.0 MCS (Secondary)
Stations: *MT MCKINLEY (JOC-Program II)
HORIZON (Bridge)
BAIRD (Bridge)
T-Boat
38 Ft Boat
6 Portable Stations

Description: SIO primary is Boat Pool secondary; SIO
secondary is Boat Pool primary.

C-I-B-7

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Operation Plan
CTG 7.3 No. 1-55

Tab B to Appendix I to Annex C - TU 7.3.1 Radio Circuits

Channel
Designation

Circuit

LOVE

Photo Net

User: IML (Program VI)
Frequency: 49.5 MCS
Equipment: IML Motorolas
Stations: *IML Office, NEL
IML Office (WRIGHT)
MOBILE #1
MOBILE #2
MOBILE #3
3 Portable Stations

Description: IML will provide and maintain equipment.

2. Control and Telemetering Circuits--

Channel
Designation

Circuit

NAN

YAG Radio Remote Control

User: Project 2.4
Frequencies: NAN 1 - 30.133 MCS
NAN 2 - 32.089 MCS
NAN 3 - 34.380 (Spare)
Equipment: AN/AR3-3, 25W, A2
Stations: MOLALA - Transmit
YAG's 39 and 40 - Receive

Description: This system provides a means to remote control the YAG's from the MOLALA in event ship control parties must be removed from the YAG's for radiological safety reasons. Trials will commence in the San Francisco area about 16 March 1955. In event this system is used for the test, Project 2.4 will use channel GEORGE for telemetering tones and channel ABLE for project voice transmissions.

OBOE

NRL Telemetering and Control Link

User: Project 1.2.1
Frequencies: OBOE 1 - 255 MCS
OBOE 2 - 265 MCS
OBOE 3 - 140.22 MCS

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CTG 7.3 No. 1-55

Tab B to Appendix I to Annex C - TU 7.3.1 Radio Circuits

Channel
Designation

Circuit

Equipment: NRL manufactured telemetering - 8 MC bandwidth, amplitude modulation, 40W; control link - 10 KC bandwidth, amplitude modulated, 100W.

Stations: The transmitters will be located at NEL during the outfitting period and on Site 0 and Site 1B during the operation. Recorders will be in the NRL trailer at NEL, NRF and then on the CURTISS during the shot phase.

Description: Eight channels of underwater pressure data will be telemetered from each Site to the recording station (NRL trailer on CURTISS). OBOE 3 provides a voice and control channel between stations.

PETER

ARF Telemetering

User: Project 4.4

Frequencies: PETER 1 - 217 MCS
PETER 2 - 219.5 MCS
PETER 3 - 221.5 MCS

Equipment: Raymond Rosen 840A transmitters

Stations: Transmitters - Site 0
Receivers - CURTISS

Description: Circuit to be installed about 15 April. Time of arrival of the shock wave at various stations will be telemetered to the CURTISS. A back-up system operating on the second frequency is planned.

QUEEN

NRDL Buoy Telemetering

User: Project 2.4

Frequencies: QUEEN 1 - 162.4 MCS
QUEEN 2 - 164.275 MCS
QUEEN 3 - 166.5 MCS
QUEEN 4 - 168.4 MCS
QUEEN 5 - 170.150 MCS
162-174 MCS band assigned when trans-
missions are 80 miles off-shore.

Equipment: Ten air droppable buoys equipped with AN/USQ1-XN-3 transmitters, 100W; AN/ARR-29 receiver (MT MCKINLEY-Flag Comm)

C-I-B-9

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Operation Plan
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Tab B to Appendix I to Annex C - TU 7.3.1 Radio Circuits

Channel
Designation

Circuit

Description: Surface radiation levels will be telemetered from buoys to a recording station in the MT MCKINLEY.

ROGER

Sanctia Telemetering

User: Project 4.5
Frequencies: ROGER 1 - 232.25 MCS
ROGER 2 - 231.00 MCS
ROGER 3 - 229.75 MCS
ROGER 4 - 226.25 MCS
ROGER 5 - 225.00 MCS
ROGER 6 - 223.75 MCS
Equipment: Bendix TXV-13-M4, 30W

Description: Air overpressure data will be telemetered from balloon stations at Site 0, 1B and 2B and recorded in a trailer on the CURTISS.

SUGAR

Timing and Firing

User: Program V
Frequencies: SUGAR 1 - 154.37 MCS (Fiducial Signal)
SUGAR 2 - 155.03 MCS (Firing Control)
SUGAR 3 - 155.57 MCS (Firing Control)
SUGAR 4 - 156.17 MCS (Firing Control)
SUGAR 5 - 156.83 MCS (Repeat Back)
SUGAR 6 - 157.43 MCS (Time Signals)
Equipment: As listed in EG&G Report #1157
Station: Firing Room (MT MCKINLEY)

Description: Contained in EG&G Reports #1157 and 1169.

TARE

Survey Aircraft Telemetering (Motorola)

Frequencies: TARE 1 - 30.54 MCS Assign: Survey 1 Radiac
TARE 2 - 34.00 MCS Survey 2 Radiac
TARE 3 - 36.58 MCS Survey 1 Bolo-
meter
TARE 4 - 38.42 MCS Survey 2 Bolo-
meter
TARE 5 - 40.54 MCS Observers (Voice)
TARE 6 - 32.06 MCS Spare
TARE 7 - 40.78 MCS Spare

C-I-B-10

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Tab B to Appendix I to Annex C - TU 7.3.1 Radio Circuits

Description: Surface radiation and temperature readings will be telemetered from two AD-5N type aircraft to the Program II plot located in the JOC of the AGC. Program II observers in the aircraft will report observations to Program II plot via Motorola channel on frequency TARE 5. HORIZON and BAIRD will listen on T-5. Antennae cut to frequencies TARE 1 - TARE 5 will be installed on the HORIZON in event telemetering and recording equipment is transferred from the AGC to the HORIZON. Notify the TG 7.3 Communications Officer prior to transmitting on 30.54 MCS in the San Diego area.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

C-I-B-11

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

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Tab C to Appendix I to Annex C

Frequency Index

Except as indicated in the below table, TG 7.3 ships, aircraft, projects and units must obtain CTG 7.3 permission to transmit on any frequency, not including assigned RADAR and RACON frequencies above 400 MCS. This control is vital to accomplishment of the WIGWAM scientific programs.

<u>FREQUENCY</u>	<u>CHANNEL NO.</u>	<u>CIRCUIT</u>
474 KCS	1A	Task Group CW Common
500	16A	Distress and Calling
585	--	MOUNT MCKINLEY VHF Homing Beacon (IDENT. ZP) E.G. SMALL VHF Homing Beacon (IDENT. BC)
675	--	WRIGHT VHF Homing Beacon (IDENT. PC)
705	--	MCKEAN VHF Homing Beacon (IDENT. PB)
2216	1B	Task Group CW Common
2656	7A	TG Coordination Net (CIC)
2716	15A	NPL Ship/Shore - VOICE
2836	15B	NPL Ship/Shore - CW
3023.5	16C	SAR - Scene of Action - CG Aircraft
3039	4A	Air Patrol Net (CW - Primary)
3151	5B	TG 7.3 Base Radio Net (Secondary)
3303	14A	NPL "DOG ROGER" Broadcast
3385	5C	TG 7.3 Base Radio Net (Spare)
4259	3A	FleWeaCen San Diego Facsimile Broadcast
4340	2A	AGC Send; Duplex RATT, AGC-NCS San Diego
4470	1B	Air Patrol Net (CW-Secondary)
4620	19A	SIO Net
5080	5A	TG 7.3 Base Radio Net (Primary) Base Radio Net (Primary)
5335	2B	NCS Send; Duplex RATT, AGC-NCS San Diego
6397	14B	NPL "DOG ROGER" Broadcast
8364	16B	Aircraft Distress
8518	3B	FleWeaCen San Diego Facsimile Broadcast
8594	2C	AGC Send; Duplex RATT, AGC-NCS San Diego
9035	4C	Air Patrol Net (CW - Secondary)
10255	2D	NCS Send; Duplex RATT, AGC-NCS San Diego
12768	2E	AGC Send; Duplex RATT, AGC-NCS San Diego
12777	3C	FleWeaCen San Diego Facsimile Broadcast
15525	2F	NCS Send; Duplex RATT, AGC-NCS San Diego
17261.6	2G	NCS & AGC Send; Duplex RATT, AGC-NCS San Diego
17740	3D	FleWeaCen San Diego Facsimile Broadcast

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Tab C to Appendix I to Annex C - Frequency Index

<u>FREQUENCY</u>	<u>CHANNEL NO.</u>	<u>CIRCUIT</u>
23650	3E	FleWeaGen San Diego Facsimile Broadcast
30.133 MCS	NAN 1	YAG Radio Remote Control
30.54	TARE 1	Survey Aircraft Telemetering (Survey 1 Radiac)
32.06	TARE 6	Survey Aircraft Telemetering (Spare)
32.089	NAN 2	YAG Radio Remote Control
34.00	TARE 2	Survey Aircraft Telemetering (Survey 2 Radiac)
34.380	NAN 3	YAG Radio Remote Control (Spare)
36.58	TARE 3	Survey Aircraft Telemetering (Survey 1 Bolometer)
38.42	TARE 4	Survey Aircraft Telemetering (Survey 2 Bolometer)
40.54	TARE 5	Survey Aircraft Observers Net
40.78	TARE 7	Survey Aircraft Telemetering (Spare)
44.0	17A	Boat Pool Net (Primary)
46.0	17B	Boat Pool Net (Secondary)
48.0	17C	Boat Pool Net (Special Missions)
49.5	LOVE	Photo Net (Program VI)
88.8	18A	AGC-AV Radiotelephone; AGC Xmit
92.8	18B	AGC-AV Radiotelephone; AV Xmit
121.5	16D	U.S. UHF Emergency
132.3	--	Photo Aircraft - Control (Secondary)
137.88	--	Photo Aircraft - Control (Primary)
140.22	OBOE 3	NRL Control Link
152.87	ABLE	Technical Net
153.35	GEORGE	Project 2.4 Net
153.89	JIG	E.G.&G. Net
154.37	SUGAR 1	Fiducial Signal (E.G.&G.)
155.03	SUGAR 2	Firing Control (E.G.&G.)
155.57	SUGAR 3	Firing Control (E.G.&G.)
156.17	SUGAR 4	Firing Control (E.G.&G.)
156.83	SUGAR 5	Repeat Back (E.G.&G.)
157.43	SUGAR 6	Time Signals
157.91	EASY	RADLSAFE Net
158.51	CHARLIE	Surface Support Net
159.05	DOG	Tow and Salvage Net
159.53	--	Spare
160.20	HOW	Sandia Net
161.33	ITEM	NRL-NOL Net
162-174	QUEEN	NRDL Buoy Telemetering (WIGWAM Area)
162.4	QUEEN 1	NRDL Buoy Telemetering, San Diego
164.275	QUEEN 2	NRDL Buoy Telemetering, San Diego
166.5	QUEEN 3	NRDL Buoy Telemetering, San Diego
168.4	QUEEN 4	NRDL Buoy Telemetering, San Diego
170.150	QUEEN 5	NRDL Buoy Telemetering, San Diego

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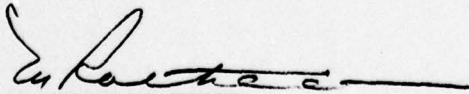
Operation Plan
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Tab C to Appendix I to Annex C - Frequency Index

<u>FREQUENCY</u>	<u>CHANNEL NO.</u>	<u>CIRCUIT</u>
217.0	PETER 1	ARF Telemetering
219.5	PETER 2	ARF Telemetering
221.5	PETER 3	ARF Telemetering
223.75	ROGER 6	Sandia Telemetering
225.0	ROGER 5	Sandia Telemetering
226.25	ROGER 4	Sandia Telemetering
229.75	ROGER 3	Sandia Telemetering
231.0	ROGER 2	Sandia Telemetering
232.25	ROGER 1	Sandia Telemetering
236.2	11A	TAD #1
237.8	13A	Carrier Land/Launch Net
241-251	--	VHF Homing Beacon Carrier Frequency (YE/YG)
243.0	16E	UHF Emergency
255.0	OBOE 1	NRL Telemetering (8 MC Bandwidth)
265.0	OBOE 2	NRL Telemetering (8 MC Bandwidth)
277.8	10A	Administrative Net
285.8	9A	Tactical Net
289.8	8A	Combat Information Net (CIC)
318.6	12B	Helicopter Control (Secondary)
339.4	6A	Tactical Air Traffic Control Net (TATC)
344.2	12A	Helicopter Control (Primary)
349.0	11B	TAD #2
356.2	11C	TAD #3

RADAR and RACON equipments are assigned operating frequencies in the band 550-10,000 MCS.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

C-I-C-3


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Task Group 7.3
Washington 25, D. C.

Operation Plan
CTG 7.3 No. 1-55

25 March 1955; 1000R

Appendix II to Annex C

Radio Call Signs and Code Words

* - Voice calls so designated shall be used only within Task Group 7.3.

1. Activity Listing.

a. <u>Task Groups, Units and Elements</u>	<u>Voice Call Sign</u>	<u>CW Call Sign</u>
CJTF 7	*IRISHMAN	N3G9
CTG 7.3	*VENTURE	JØK3
TG 7.3	*PACEMAKER	D5F6
CTU 7.3.1	*VENTURE ONE	JØK3 B7A5
CTE 7.3.1.7	*GALLEY	JØK3 Z7Q3
TE 7.3.1.7	*SNOW FLOW	D5F6 N8Q1

NOTE: MESSAGES FOR COMPONENTS OF TU 7.3.1 SHOULD BE ADDRESSED
TO STATIONS FOR INDIVIDUALS CONCERNED.

CTU 7.3.2	*VENTURE TWO	JØK3 X5K1
TU 7.3.2	*PACEMAKER TWO	D5F6 Z9D9
CTU 7.3.3	*VENTURE THREE	JØK3 J3Y5
TU 7.3.3	*PACEMAKER THREE	D5F6 Y2J1
CTU 7.3.4	*VENTURE FOUR	JØK3 C3UØ
TU 7.3.4	*PACEMAKER FOUR	D5F6 AØØ1
CTE 7.3.4.1	*BIGAMY	JØK3 E3T1
TE 7.3.4.1	*BEHAVE	D5F6 W1AØ
CTE 7.3.4.2	*PENROD	JØK3 SØC4
TE 7.3.4.2	*ADAPT	D5F6 A1R3
CTE 7.3.4.3	*GUNSHOT	JØK3 A3X3
TE 7.3.4.3	*HARD TIME	D5F6 D6P6
CTU 7.3.5	*VENTURE FIVE	JØK3 ZØB6
TU 7.3.5	*PACEMAKER FIVE	D5F6 G1RØ
ALL TU COMS. OF TG 7.3	*ACCOUNT	H5S6

b. Task Group 7.3 Ships
And Administrative

ALFRED A. CUNNINGHAM (DD-752)
BLUE (DD-744)
BOLSTER (ARS-38)
BUTTERNUT (AN-9)

<u>Voice Call Sign</u>	<u>CW Call Sign</u>
MIND READER	NHXG
FIREFLY	NTJM
BOUNDARY VICTOR	NHEW
DISCOUNT EASY	NASW

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Appendix II to Annex C - Radio Call Signs and Code Words

Task Group 7.3 Ships
And Administrative

Voice Call Sign

CW Call Sign

CHANTICLEER (ASR-7)	YUCCA XRAY	NBJU
COMSTOCK (LSD-19)	HAMBROOK EASY	NJAL
CREE (ATF-84)	LADDER BAKER	NAOR
CREST (SCRIPPS)(EX-YMS)	*PORK CHOP	KSLN
CREST - USE ON 11thND FREQ.	- - - - -	NPL-15-T
CURTISS (AV-4)	FIREWORKS ABLE	NEFZ
ERNEST G. SMALL (DDR-838)	TEXACO	NBBM
E. W. SCRIPPS (SCRIPPS)(EX-YAGHT) *BED BUG		KLNT
E.W. SCRIPPS - USE ON 11thND FREQ. - - -		5IUV
FORT MARION (LSD-22)	JET BLACK NAN	NZGZ
FRANK E. EVANS (DD-754)	SWALLOW	NTKB
GYPSY (ARSD-1)	EXPERT MIKE	NFNP
HITCHITI (ATF-103)	FORFEIT UNCLE	NWUB
HORIZON (SCRIPPS)(EX-ATA)	*TICKET	KSLF
HORIZON - USE ON 11thND FREQ.	- - - - -	NPL-15-U
HUBBARD (DD-748)	PACK SADDLE	NTRD
LST 975	BELTING 975	NVHZ
LST 1048	BELTING 1048	NVHC
MCKEAN (DDR-784)	RANCHER	NTMF
MOCTOBI (ATF-105)	DECANTER LOVE	NWXD
MOLALA (ATF-106)	FORFEIT XRAY	NWZG
MT MCKINLEY (AGC-7)	JANGLE NAN	NTXC
O'BRIEN (DD-725)	YARDLEY	NJVI
PAOLINA-T(SCRIPPS)(EX-PURSE SEINER) *LOCAL		KSLQ
PAOLINA-T - USE ON 11thND FREQ. - - - - -		NPL-15-V
RECLAIMER (ARS-42)	CARIBOU JIG	NIIB
SPENCER F. BAIRD (SCRIPPS)	*WAITER	KIBR
SPENCER F. BAIRD - USE ON 11th ND FREQ. - - -		NPL-15-W
TAWASA (ATF-92)	FALTER VICTOR	NUXD
WALKE (DD-723)	JOINT WEED	NTXS
WRIGHT (CVL-49)	STAMP ACT	NILI
YAG-39 (GEORGE EASTMAN)	ARROGANT 39	NEHZ
YAG-40 (GRANVILLE S. HALL)	ARROGANT 40	NBNC
COMSERVRON 1	CLUBFLUSH UNCLE	SROR
COMDESRON 13	ABEAM EASY	YRMR
DESRON 13	MARGIN FOX	AMPO
COMDES DIV 131	ALOHA KING	DSTC
DES DIV 131	WOOLWORTH WILLIAM	YZHY
COMDES DIV 132	THUNDERBOLT HOW	YTAG
DES DIV 132	GOLFER MIKE	SQPC

c. Array Units

Voice Call Sign

Site Ø (YC-473)(Ø ft)	REFUGEE 473
Site 1A (SANDIA LCM)(2,300 ft)	*SITE ONE ABLE
Site 1B (NRL-NOL LCM)(2,500 ft)	*SITE ONE BAKER
Site 2A (SANDIA LCM)(3,900 ft)	*SITE TWO ABLE
Site 2B (NRL-NOL LCM)(4,100 ft)	*SITE TWO BAKER

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Operation Plan
CTG 7.3 No. 1-55

Appendix II to Annex C - Radio Call Signs and Code Words

Array Units

Voice Call Sign

Site 3 (YFNB-12)(7,000 ft)	FLOATING RIB 12
Site 4 (YFNB-13)(9,000 ft)	FLOATING RIB 13
Site 5 (YFNB-29)(11,000 ft)	FLOATING RIB 29
Site 6 (NEL LCM)(14,000 ft)	*SITE SIX
Site 7 (NEL LCM)(18,000 ft)	*SITE SEVEN
Site 8 (NEL LCM)(22,000 ft)	*SITE EIGHT
Site 9 (NEL LCM)(28,000 ft)	*SITE NINE
Site 10 (ARRAY TUG)(30,000 ft)	(Voice Call of ATF)
SQUAW, Site 3 (6,500 ft)	*HEARTLESS 12
SQUAW, Site 4 (8,500 ft)	*HEARTLESS 13
SQUAW, Site 5 (10,500 ft)	*HEARTLESS 29

NOTE: Site numbers will remain unchanged; distances may vary slightly.

d. Task Group 7.3 Aircraft

Voice Call Sign

CW Call Sign

All TG 7.3 Aircraft	*99 PACEMAKER	- - - - -
Helicopters; 7 HRS (HMR-362)	(NO.) CLIFFBUSH	- - - - -
Sample Return; 6 AF (VS-21)	(NO.) SALVATION	(NO.) N 21
PATROL; 12 P2V-5 (VP-2)	(NO.) CAPE COD	(NO.) Z 34
PHOTO; 3 C-54; 2 RB-50(AIR FORCE)	*DAGO (NO.)	(NO.) CYØ
Hydrographic Aircraft; 3P4Y	(NO.) QUEEN BEE	(NO.) U75
(FASRON-110)		
SURVEY AIRCRAFT; 3 AD-5N	(NO.) TREND	(NO.) F15
	#SURVEY (NO.)	

NOTE: FORM AIRCRAFT CALLS IN ACCORDANCE WITH JANAP 115(B), SECTION 7.

AD-5N's use SURVEY (NO.) calls on survey missions.

e. Miscellaneous

Voice Call Sign

Boat Pool Dispatcher	*ROBINHOOD
E.G. & G. (MT. MCKINLEY)	*DIRTY FACE
E.G. & G. (NEL)	*DIRTY FACE ONE
HELICOPTER SCHEDULING (WRIGHT)	*DOLL HOUSE
LCM's	*CATGUT (NO.)
LOOKOUT MOUNTAIN LAB (PROG. VI)	*SASSY (NO.)
PORTABLE RADIO STATIONS	CALL OF LOCATION OR
	PORTABLE (NO.)
PROJECT 2.4 OFFICE (WRIGHT)	*SURPRISE
RADSAFE OFFICE (WRIGHT)	*BUZZER

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Appendix II to Annex C - Radio Call Signs and Code Words

Miscellaneous

TACRON 1 AIR CONTROLLER
PROGRAM II PLOT - MT MCKINLEY
SCRIPPS T-BOAT
SCRIPPS 38 FT. BOAT

Voice Call Sign

LAZARUS
*GOSSIP
*RIPPLE 1
*RIPPLE 2

f. Code Words

Code Word

##UPROAR (NO.)
##HOT SHOT (NO.)
##ANGRY (NO.)
##AWAY (NO.)
##EYEFULL (NO.)
##MUDBANK (NO.)
##CHILI (NO.)
*RUMPUS (NO.)

Meaning

Average radiation intensity in Roentgens per hour.
Average radiation intensity in Milli-Roentgens per hour.
Maximum radiation intensity in Roentgens per hour.
Maximum radiation intensity in Milli-Roentgens per hour.
Total dosage in Roentgens.
Total dosage in Milli-Roentgens.
Water temperature in degrees centigrade.
Micro Curies per Milli-Liter.

- Where readings are for other than surface or shipboard indicate depth in feet by numbers preceding the code word and height in feet by numbers after the reading and separated by the word "DASH".

- Ex. (1) - 300 ANGRY 15 indicates maximum reading at a depth of 300 feet is 15 Roentgens/hr.
(2) - HOT SHOT 150 DASH 200 indicates an average reading of 150 mr/hr at an altitude of 200 feet.

2. Alphabetical Listing

Voice Call Sign

ABEAM EASY
*ACCOUNT
*ADAPT
ALOHA KING
*ANGRY (NO.)
ARROGANT 39

Stations or Activity

COMSERVRON 1
ALL TU COMS. OF TG 7.3
TE 7.3.4.2
COMDESDIV 131
(CODE WORD - SEE SECTION 1f ABOVE)
YAG-39 (GEORGE EASTMAN)

CW Call Sign

SROR
H5S6
D5F6 AIR3
DSTC
NBHZ

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Appendix II to Annex C - Radio Call Signs and Code Words

<u>Voice Call Sign</u>	<u>Stations or Activity</u>	<u>CW Call Sign</u>
ARROGANT 40	YAG-40 (GRANVILLE S. HALL)	NBNC
*AWAY (NO.)	(CODE WORD - SEE SECTION 1f ABOVE)	
*BEDBUG	E.W. SCRIPPS (SCRIPPS)(EX-YACHT)	KLNT
*BEHAVE	TE 7.3.4.1	D5F6 WLAØ
BELTING 975	LST 975	NVHZ
BELTING 1048	LST 1048	NVHC
*BIGAMY	CTE 7.3.4.1	JØK3 E3T1
BOUNDARY VICTOR	BOLSTER (ARS-38)	NHEW
*BUZZER	RADSAFE OFFICER (WRIGHT)	- - - - -
(NO.) CAPECOD	PATROL ACFT (12 P2V-5)	(NO.) Z34
*CATGUT (NO.)	LCM's	- - - - -
CARIBOU JIB	RECLAIMER (ARS-42)	NIIB
*CHILI (NO.)	(CODE WORD - SEE SECTION 1f ABOVE)	
(NO.) CLIFFBUSH	HELICOPTERS (7 HRS)	- - - - -
CLUBFLUSH UNCLE	COMSERVRON 1	SROR
*DAGO (NO.)	PHOTO ACFT (3 C-54; 2 RB-50)	(NO.) CYØ
DECANTER LOVE	MCCTOBI (ATF-105)	NWXD
*DIRTY FACE	E.G. & G. (MT MCKINLEY)	- - - - -
*DIRTY FACE ONE	E.G. & G. (NEL)	- - - - -
DISCOUNT EASY	BUTTERNUT (AN-9)	NASW
*DOLL HOUSE	HELICOPTER CONTROL (WRIGHT)	- - - - -
*EYEFULL (NO.)	(CODE WORD - SEE SECTION 1f ABOVE)	
EXPERT MIKE	GYPSY (ARSD-1)	NFNP
FALTER VICTOR	TAWASA (ATF-92)	NUXD
FIREFLY	BLUE (DD-744)	NTJM
FIREWORKS ABLE	CURTISS (AV-4)	NEFZ
FLOATING RIB 12	YFNB-12 (SITE 3)	- - - - -
FLOATING RIB 13	YFNB-13 (SITE 4)	- - - - -
FLOATING RIB 29	YFNB-29 (SITE 5)	- - - - -
FORFEIT UNCLE	HITCHITI (ATF-103)	NWUB
FORFEIT XRAY	MOLALA (ATF-106)	NWZG
*GALLEY	CTE 7.3.1.7	JØK3 Z7Q3
GOLFER MIKE	DESDIV 132	SJPC
GOSSIP	PROGRAM II PLOT - MT MCKINLEY	- - - - -
*GUNSHOT	CTE 7.3.4.3	JØK3 A3X3
HAMROCK EASY	COMSTOCK (LSD-19)	NJAL
*HARD TIME	TE 7.3.4.3	D5F6 D6P6
*HEARTLESS 12	YFNB-12 SQUAW	- - - - -
*HEARTLESS 13	YFNB-13 SQUAW	- - - - -
*HEARTLESS 29	YFNB-29 SQUAW	- - - - -
*HOT SHOT (NO.)	(CODE WORD - SEE SECTION 1f ABOVE)	
*IRISHMAN	CJTf 7	N3G9
JANGLE NAN	MT MCKINLEY (AGC-7)	NTXC
JET BLACK NAN	FORT MARION (LSD-22)	NZGZ

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Appendix II to Annex C - Radio Call Signs and Code Words

Voice Call Sign	Stations or Activity	CW Call Sign
JOINT WEED	WALKE (DD723)	NTXS
LADDER BAKER	CREE (ATF-84)	NAOR
LAZARUS	TACRON 1 AIR CONTROLLER	- - - - -
*LOCAL	PAOLINA-T (SCRIPPS)(EX-PURSE SEINER)	KSLQ
MARGINE FOX	DESRON 13	AMPO
MIND READER	ALFRED A CUNNINGHAM (DD-752)	NHXG
*MUDBANK (NO.)	(CODE WORD - SEE SECTION 1f ABOVE)	
*PACEMAKER	TG 7.3	D5F6
*PACEMAKER TWO	TU 7.3.2	D5F6 29D9
*PACEMAKER THREE	TU 7.3.3	D5F6 Y2J1
*PACEMAKER FOUR	TU 7.3.4	D5F6 A001
*PACEMAKER FIVE	TU 7.3.5	D5F6 G1R0
*99 PACEMAKER	ALL TG 7.3 AIRCRAFT	- - - - -
PACK SADDLE	HUBBARD (DD-748)	NTRD
*PENROD	CTE 7.3.4.2	J0K3 S0C4
*PORK CHOP	CREST (SCRIPPS)(EX-YMS)	KSLN
*PORTABLE (NO.)	PORTABLE RADIO STATIONS	- - - - -
(NO.) QUEEN BEE	HYDROGRAPHIC ACFT (3 P4Y)	(NO.) U75
RANCHER	MCKEAN (DDR-784)	NTMF
REFUGEE 473	YC-473 (Site 0)	- - - - -
*RIPPLE (NO.)	SCRIPPS 38 FT. BOATS	- - - - -
*ROBINHOOD	BOAT POOL DISPATCHER	- - - - -
*RUMPUS (NO.)	(CODE WORD - SEE SECTION 1f ABOVE)	
(NO.) SALVATION	SAMPLE RETURN ACFT (6AF)	(NO.) N21
*SITE (NO.)	(REFER TO SECTION 1c ABOVE)	
*SNOW FLOW	TE 7.3.1.7	D5F6 N8Q1
STAMP ACT	WRIGHT (CVL-49)	NILI
*SURPRISE	PROJECT 2.4 OFFICE (WRIGHT)	- - - - -
SURVEY (NO.)	AD-5N's ON SURVEY MISSIONS	
SWALLOW	FRANK E. EVANS (DD-754)	NTKB
TEXACO	ERNEST G. SMALL (DDR-838)	NBBM
THUNDERBOLT HOW	COMDESDIV 132	YTAG
*TICKET	HORIZON (SCRIPPS)(EX-ATA)	KSLF
TREND (NO.)	SURVEY ACFT (AD-5N's)	(NO.) F15
*UPROAR (NO.)	(CODE WORD - SEE SECTION 1f ABOVE)	
*VENTURE	CTG 7.3	J0K3
*VENTURE ONE	CTU 7.3.1	J0K3 B7A5
*VENTURE TWO	CTU 7.3.2	J0K3 X5K1
*VENTURE THREE	CTU 7.3.3	J0K3 J3Y5
*VENTURE FOUR	CTU 7.3.4	J0K3 C3U0
*VENTURE FIVE	CTU 7.3.5	J0K3 Z0B6
*WAITER	SPENCER F. BAIRD (SCRIPPS)	KIBR
WOOLWORTH WILLIAM	DESDIV 131	YZHY
YARDLEY	O'BRIEN (DD-725)	NJVI
YUCCA KRAY	CHANTICLEER (ASR-7)	NBJU

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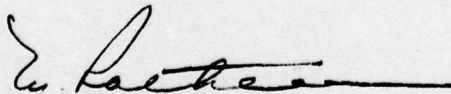
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Appendix II to Annex C - Radio Call Signs and Code Words

3. Spare Voice Calls (JANAP 119-A - LIST B)

- | | | |
|----------------|------------------|----------------|
| 1. ABOLISH | 25. GROUSE | 49. OBLONG |
| 2. ANDIRON | 26. HONEYMOON | 50. OILCLOTH |
| 3. ARTERY | 27. ICEBERG | 51. OPIUM |
| 4. BALLOT | 28. IMPEDE | 52. OUTLAST |
| 5. BARLEY | 29. INHALE | 53. PAINTER |
| 6. BLUE RIBBON | 30. INSTRUCT | 54. PAPER CLIP |
| 7. CABOOSE | 31. ISOLATE | 55. PEANUT |
| 8. CANOE | 32. JAGGED | 56. PENCIL |
| 9. CITATION | 33. JAY BIRD | 57. PERFECT |
| 10. COBALT | 34. JOSHUA | 58. POT ROAST |
| 11. CONTEST | 35. JUNK SHOP | 59. QUARTER |
| 12. CURIOUS | 36. KEYHOLE | 60. RADIATE |
| 13. DEMAND | 37. KING PIN | 61. RECALL |
| 14. DRASTIC | 38. LADDIE | 62. REGRET |
| 15. DUMPLING | 39. LAWYER | 63. RESOLUTE |
| 16. EFFORT | 40. LENA | 64. SERENE |
| 17. EMBLEM | 41. LORD CALVERT | 65. SILK HAT |
| 18. ENJOY | 42. MAIL CALL | 66. STUDENT |
| 19. ESCORT | 43. MIDWATCH | 67. TABLET |
| 20. FENWAY | 44. MISTAKE | 68. UNITE |
| 21. FLOYD | 45. NEBULA | 69. WATCH DOG |
| 22. FURLONG | 46. NETWORK | 70. WHISTLE |
| 23. GAS LIGHT | 47. NORTHERN | 71. WOOL |
| 24. GREENWOOD | 48. NUT CRACKER | |

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Operation Plan
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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Appendix III to Annex C

Radio Time Signals

1. General.

Shot time and related timing signals will be disseminated by:

a. Message

Several messages establishing a tentative shot time and confirming or changing this shot time will be originated by CTG 7.3 addressed to: CNO; ONR Washington, D.C.; AEC Washington, D.C.; AFSWP; CJTF SEVEN; CINCPACFLT; AFOAT 1; COM 11; TG 7.3 and other agencies concerned. A confirmation message containing actual world time (WWV) of shot will be sent after the event to the above addressees less TG 7.3.

b. Voice Time Broadcast (-1 hr to 0 time).

c. Contact closure signals.

d. Fiducial marker signal followed by pulses at $\frac{1}{2}$ second intervals.

Stations concerned with taking scientific or operational data related to time will set clocks and watches in accordance with the Voice Time Broadcast or will employ contact closure and/or fiducial marker signals as appropriate.

2. Voice Time Broadcast.

a. This broadcast will commence at SHOT time minus one hour and will be transmitted from the MT MCKINLEY Firing Room on the Technical Net (Channel ABLE - 152.87 MCS FM) and the Administrative Net (Channel LOA - 277.8 MCS). The final fifteen minutes will be announced from a tape recording activated by the sequence timer which controls time of firing.

b. All ships and aircraft within VHF or UHF range of the MT MCKINLEY during the SHOT period are required to receive this broadcast. Ships equipped with public address systems should either provide for automatic rebroadcast over these systems or initiate broadcasts using the script herein and coordinating times with official announcements. Public address speakers which would produce feed back or interfere with operations (such as CIC) during announcements should be disconnected from the circuit. On several ships, scientific personnel will require this broadcast at data recording stations.

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Appendix III to Annex C - Radio Time Signals

c. Air controllers direct aircraft in the area to shift to 277.8 MCS one minute prior to time announcements required and shift back to the assigned control channel upon completion of each announcement. All aircraft in the area are required to receive and acknowledge (via control channels) the minus 15 minutes and minus 5 minute signals and to receive time signals from minus 1 minute until SHOT time. Receipt of other time signals will be in accordance with scientific needs or the aircraft commanders desires. Aircraft equipped with two UHF receivers may remain on the assigned UHF control channel and receive the voice time broadcast on the other receiver.

d. Caution - From SHOT time minus 1 hour and 10 minutes until SHOT time plus 3 minutes channel ABLE and channel 10 are reserved exclusively for voice time broadcast announcements originated in the MT MCKINLEY Firing Room. All stations insure operators do not transmit during this period.

e. Broadcast circuit tests will be conducted in the San Diego harbor area during April 1955; however transmissions will be in the form of tones only and an announcement of circuit test. A schedule of these tests will be promulgated. Enroute to the WIGWAM operating area and when more than 100 miles distance from San Diego, the complete script will be broadcast several times.

3. Voice Time Broadcast Script.

a. The exact script shown below will be broadcast from the MT MCKINLEY at the times indicated. The beginning of the tone denotes the time. Ships not effecting automatic rebroadcast over public address systems, instruct ship's announcer to use "Hack" or "Mark" where "Tone" is indicated. Ships may omit the following time announcements; 14 min, 13 min, 12 min, 11 min, 9 min, 8 min, 7 min and 6 minutes.

Time

Announcement

Standby for time TONE

In one minute the time will be - H MINUS ONE
HOUR - H MINUS ONE HOUR

Thirty seconds

Ten seconds

Five, Four, Three, Two, One

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Time

Announcement

TONE - H MINUS ONE HOUR

Next time TONE will be H MINUS FORTY-FIVE MINUTES - Next time TONE at H MINUS FORTY-FIVE MINUTES

In one minute the time will be H MINUS FORTY-FIVE MINUTES - H MINUS FORTY-FIVE MINUTES

Thirty seconds

Ten seconds

Five, Four, Three, Two, One

TONE - H MINUS FORTY-FIVE MINUTES

Next time TONE at H MINUS THIRTY MINUTES -
Next time TONE at H MINUS THIRTY MINUTES

In one minute the time will be H MINUS THIRTY MINUTES - H MINUS THIRTY MINUTES

Thirty seconds

Ten seconds

Five, Four, Three, Two, One

TONE - H MINUS THIRTY MINUTES

Next time TONE at H MINUS FIFTEEN MINUTES

In one minute the time will be H MINUS FIFTEEN MINUTES - H MINUS FIFTEEN MINUTES

Thirty seconds until H MINUS FIFTEEN MINUTES

Ten seconds

Five, Four, Three, Two, One

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Appendix III to Annex C - Radio Time Signals

<u>Time</u>	<u>Announcement</u>
	ONE - H MINUS FIFTEEN MINUTES
	Thirty seconds until H MINUS FOURTEEN MINUTES
	Ten seconds
	Five, Four, Three, Two, One
	ONE - H MINUS FOURTEEN MINUTES
	Thirty seconds until H MINUS THIRTEEN MINUTES
	Ten seconds
	Five, Four, Three, Two, One
	ONE - H MINUS THIRTEEN MINUTES
	Thirty seconds until H MINUS TWELVE MINUTES
	Ten seconds
	Five, Four, Three, Two, One
	ONE - H MINUS TWELVE MINUTES
	Thirty seconds until H MINUS ELEVEN MINUTES
	Ten seconds
	Five, Four, Three, Two, One
	ONE - H MINUS ELEVEN MINUTES
	Thirty seconds until H MINUS TEN MINUTES
	Ten seconds
	Five, Four, Three, Two, One

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Appendix III to Annex C - Radio Time Signals

<u>Time</u>	<u>Announcement</u>
	TONE - H MINUS TEN MINUTES
	Thirty seconds until H MINUS NINE MINUTES
	Ten seconds
	Five, Four, Three, Two, One
	TONE - H MINUS NINE MINUTES
	Thirty seconds until H MINUS EIGHT MINUTES
	Ten seconds
	Five, Four, Three, Two, One
	TONE - H MINUS EIGHT MINUTES
	Thirty seconds until H MINUS SEVEN MINUTES
	Ten seconds
	Five, Four, Three, Two, One
	TONE - H MINUS SEVEN MINUTES
	Thirty seconds until H MINUS SIX MINUTES
	Ten seconds
	Five, Four, Three, Two, One
	TONE - H MINUS SIX MINUTES
	Thirty seconds until H MINUS FIVE MINUTES
	Ten seconds
	Five, Four, Three, Two, One
	TONE - H MINUS FIVE MINUTES
	Thirty seconds until H MINUS FOUR MINUTES

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Appendix III to Annex C - Radio Time Signals

<u>Time</u>	<u>Announcement</u>
	Ten seconds
	Five, Four, Three, Two, One
	ONE - H MINUS FOUR MINUTES
	Thirty seconds until H MINUS THREE MINUTES
	Ten seconds
	Five, Four, Three, Two, One
	ONE - H MINUS THREE MINUTES
	Thirty seconds until H MINUS TWO MINUTES
	Ten seconds
	Five, Four, Three, Two, One
	ONE - H MINUS TWO MINUTES
	Thirty seconds until H MINUS ONE MINUTE
	Ten seconds
	Five, Four, Three, Two, One
	ONE - H MINUS ONE MINUTE
	Thirty seconds to ZERO TIME
	Twenty-five seconds to ZERO TIME
	Twenty seconds to ZERO TIME
	Fifteen seconds to ZERO TIME
	Ten, Nine, Eight, Seven, Six, Five, Four, Three, Two, One, <u>ONE</u> .

4. Contact Closure and Fiducial Marker Signals.

a. Separate detailed information on these signals has been promulgated to project officers concerned. Time signal dry runs

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Appendix III to Annex C - Radio Time Signals

will commence on 1 April 1955 with "zero" times of 1000 and 1500 daily, Mondays through Fridays. If the timing system is installed in the MT MCKINLEY prior to 1 April, E.G.&G will notify experimenters and arrange time signal test schedule.

b. In accordance with status report requests, Program V will provide switch closure and fiducial marker timing signals as follows:

Prog	Station	Lab	Requested by	-45 min	-15 min	-1 min	-15 sec	-5 sec	-1 sec	0	Con- tact	0	Fid- ucial	1/2 sec pulses
0.31	MT McKin- ley	NEL	NEL Photo		1	1								
"	McKean	"	"		1	1								
"	Small	"	"		1	1								
1.2	Site 1A	NOL	C.J. Aronson	2	2	2						2		NO
"	Site 2A	"	"	2	2	2						2		NO
"	Site 3	"	"	2	2	2					1	2		YES
"	Site 4	"	"	2	2	2					1	2		YES
"	Site 5	"	"	2	2	2					1	2		YES

NOTE: Proj 1.2 duplicate signals provide for complete back-up and require different receivers for same signals at each location.

1.2.1	Site 0	NRL	J. P. Walsh	1	2	2		1				2		YES
"	Site 1A	"	"	1	1	1						1		YES
"	NRL	"	"											
	Trailer	"	"	1	1	1	1	1				1		YES
1.3	Site 3	NEL	T. McMillian	1	1	1	1	1	1			1		YES
"	Site 4	"	"	1	1	1	1	1	1			1		YES
"	Site 5	"	"	1	1	1	1	1	1			1		YES
"	Site 6	"	"	1	1	1	1	1	1			1		YES
"	Site 7	"	"	1	1	1	1	1	1			1		YES
"	Site 8	"	"	1	1	1	1	1	1			1		YES
"	Site 9	"	"	1	1	1	1	1	1			1		YES
1.4	Site 2A	NOL	C.J. Aronson			1		1	1			1		YES
"	Site 3	"	"											
	or 4	"	"			1		1	1			1		YES
2.7	Site 0	NRDL	F.A. French			1								
"	Site 1A	"	"					1						
"	Site 2A	"	"					1						
"	Site 3	"	"					1						

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Appendix III to Annex C - Radio Time Signals

Proj	Station	Lab	Requested by	-45 min	-15 min	-1 min	-15 sec	-5 sec	-1 sec	0	Con- tact	0	Fid- ucial	1/2 sec pulses
3.1	Site 3	DTMB	G. Chertok		1	1	1						1	YES
"	Site 4	"	"		1	1	1						1	YES
"	Site 5	"	"		1	1	1						1	YES

NOTE: -1 minute signal should be received through a signal receiver which is not used for the -15 minute or -15 second signals.

3.2	Site 3	DTMB	H. L. Rich		1		1	1	1	1			1	YES
"	Site 4	"	"		1		1	1	1	1			1	YES
"	Site 5	"	"		1		1	1	1	1			1	YES
3.4	Site 3	DTMB	H. L. Rich					1	1	1				
"	Site 4	"	"					1	1	1				
"	Site 5	"	"					1	1	1				
3.6	Site 3	DTMB	H. L. Rich				1	1			1			
"	Site 4	"	"				1	1			1			
"	Site 5	"	"				1	1			1			
3.9	Site 3	NEL	J.N. Shellabarger		3									
"	Site 4	"	"		3									
"	Site 5	"	"		3									

NOTE: Above requirement is tentative.

4.2	Site 0	Sandia	H. North	Special signals at -1 min, -30 sec and zero										
4.4	Curtiss	ARF	F. B. Porzel					2	2					
"	Site 0	"	"	(Probably two -15 min signals to turn on transmitters will be required).										
4.5	Site 0	Sandia	J.H. Scott	2	2	2								
"	Site 1B	"	"	2	2	2								
"	Site 2B	"	"	2	2	2								
"	Site 3	"	"	2	2			2					1	NO
"	Trailer	"	"										1	YES

NOTE: Proj 4.5 duplicate time signals provide for equipment back-up and require separate receivers for same signals at each location.

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Appendix III to Annex C - Radio Time Signals

Prog	Station	Lab	Requested by	-45 min	-15 min	-1 min	-15 sec	-5 sec	-1 sec	0	Con- tact	0	Fid- ucial	1/2 sec pulses
VI	Site 3	IML	H.R. Albert				1	1	1				6	YES
"	Site 4	"	"				1	1	1				3	YES
"	Site 5	"	"				1	1	1				5	YES
"	Site 10	"	"				1	1	1				2	YES
"	Station E	"	"				1	1	1				2	YES
"	Station F	"	"				1	1	1				3	YES
"	Acft #1	"	"				1	1	1				4	YES
"	Acft #2	"	"				1	1	1				3	YES
"	Acft #3	"	"				1	1	1				3	YES

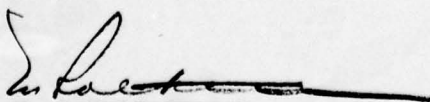
NOTE: Program VI will confirm above requirements with E.G.&G.

5. Post SHOT Time Notifications.

a. Program V will record world time of SHOT by photographic comparison of oscilloscope indications of WWV and the fiducial marker zero signal. Recorded time will be corrected for known errors (such as switch closure time) and forwarded by message to AFOAT-1 and ONR Washington, D.C.

b. The fiducial marker signal correction will be furnished to each Project requesting the fiducial marker signal.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander


M. ROTHLISBERGER
LCDR, U. S. Navy
Flag Secretary

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OPERATION WIGWAM.(U)

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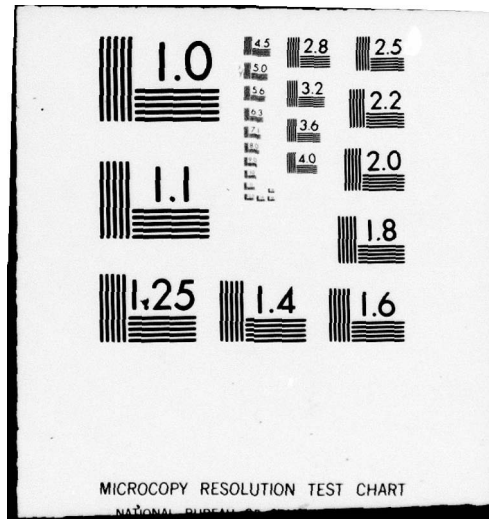
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Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Annex D

Logistics Plan

1. General.

a. To the maximum extent practicable, logistical support for the normal functioning of task group elements will be provided in accordance with existing directives of their respective military services or parent agency. Any additionally required logistical support will be arranged by the Commander Task Group 7.3 in coordination with the military services and/or the AEC, as appropriate.

b. The planned staging area for the sea phases of the operation is San Diego, California.

2. Requirements for Material and Services.

a. Task unit commanders are responsible for determination and submission of requirements for material and services for their respective task units. To the end that units will be as self-supporting as possible, supply levels for military units will be maintained as close as practicable to the operating levels established by their respective services. Since the limited storage capacity of smaller ships may make total self-support unfeasible, large ships shall be prepared to provide fuel, ammunition, provisions, disbursing service, general stores material, potable water and ships services to smaller units as directed by Commander Task Group 7.3.

b. Requirements which can be fulfilled by the use of existing requisitioning procedures of the parent service or agency will be processed in accordance with those procedures.

c. Requirements for which the parent service or agency does not have procurement and supply responsibility, or for which there is possible question as to responsible service or agency, will be processed as follows:

(1) Requirements for military material and services will be submitted to Commander Task Group 7.3.

(2) Requirements of a scientific nature will be submitted to the Commander Scientific Task Unit (CTU 7.3.1). Task group elements not attached to the Scientific Task Unit will route such requirements via Commander Task Group 7.3.

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Operation Plan
CTG 7.3 No. 1-55

Annex D - Logistics Plan

- d. Requirements will be submitted promptly in order to afford supporting agencies with maximum possible lead time. Cases of unacceptable delivery dates will be reported to and investigated by the task unit commanders concerned, who will notify Commander Task Group 7.3 of any such incidents not satisfactorily resolved at the task unit level.
3. **Procurement of Material and Services.**
- a. Task unit commanders are authorized to procure commercially, within the limitations of available funds, essential material and services which are not available from military or AEC sources.
- b. All procurement will be accomplished through existing procurement agencies of the DOD or the AEC.
- c. All procurement with task group funds will be made through existing procurement agencies in accordance with current Armed Forces procurement regulations.
- d. Procurement problems which cannot be resolved within the foregoing limitations will be referred to Commander Task Group 7.3.
4. **Property Control.**
- a. Task unit commanders are responsible for the exercise of adequate measures to maintain, safeguard and account for all property issued to or otherwise acquired by their task units.
- b. Except as otherwise indicated below, property in custody of the task group will be accounted for in accordance with the established procedure of the using service or agency.
- c. Property which is lost, damaged or destroyed while in custody of the task group will be accounted for and disposed of in accordance with established procedures of the owning service or agency.
- d. Where the loan of property to the task group is conditioned upon specific terms, task unit commanders are responsible for strict adherence to such terms. All equipment and material procured by the AFSWP or with AFSWP funds and being used in the operation is considered borrowed material. Accounting for this property will be in accordance with AFSWP letter SWPFP/973.1, serial 85 of 15 February 1954, attached hereto as Appendix I to this annex.

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Annex D - Logistics Plan

e. Task unit commanders will designate one or more qualified individuals as accountable officers (responsible officers, if civilians) to account for and supervise the care and use of task group property entrusted to their respective task units. The names of such individuals will be furnished to Commander Task Group 7.3. Task group property is defined as that which has been purchased with funds under the control of Commander Task Group 7.3.

f. The lending of property between the military and the AEC elements of the task group is authorized and encouraged where such action will result in economy of funds. In all such cases, the person signing the most recent memorandum receipt will be the accountable, or responsible, officer for the property involved. The names of these individuals need not be furnished to Commander Task Group 7.3 unless specifically directed in particular cases.

5. Transportation.

a. The normally available means of government and commercial transportation will be used to the maximum extent practicable within the continental United States.

b. Arrangement for and movement control of all transportation to and from the operational area is a responsibility of Commander Task Group 7.3. All requirements for transportation to or from the operating area, and other requirements which cannot be satisfactorily met by normally available means, will be referred to Commander Task Group 7.3.

c. Marking and shipment of supplies and equipment destined for the staging or operating areas will be as prescribed in separate instructions.

d. A task group liaison officer (designated "WIGWAM" Officer) is located at the Naval Supply Depot, San Diego, California. (Belmont 2-3871, Ext. 570). This officer is a local representative of Commander Task Group 7.3 for all matters concerning transportation and movement of task group personnel and material. Task unit commanders will assign additional personnel as assistants to the Commander Task Group 7.3 Liaison Officer if needed to expedite the movement of material and personnel of their respective task units.


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Annex D - Logistics Plan

6. Budgeting.

a. Task Group 7.3 operations during the period covered by this operation plan will be funded in the same manner as during previous joint operations at the Pacific Proving Grounds. The major portion of the funding for Operation WIGWAM is by the Department of Defense. The division of funding responsibilities within the DOD is in accordance with the concepts in the "Memorandum of the Assistant Secretary of Defense, Comptroller, dated 9 March 1953," attached as enclosure 1 to Appendix I to this annex. Agreement between the DOD and the AEC for support of this particular operation has previously been established through the Chief, AFSWP. Details of these arrangements have been made available by other means to those task units which are affected.

b. Fund requirements submitted to Commander Task Group 7.3 will take into account the funding responsibilities of the three Military Services and of the AEC to the end that task group funds are not requested for purposes other than those for which intended.

c. Fund requirements may be submitted at any time in accordance with specific letters of instruction issued by the Commander Task Group 7.3 and the Chief, AFSWP.

7. Fiscal.

a. Fiscal accounting and reporting procedures in the case of normal service operating funds will be those prescribed by the controlling Service or Agency. In the case of funds furnished by the Chief, AFSWP or Commander Task Group 7.3, Appendix I applies in all cases not specifically excepted by separate instructions.

b. Procedures for accumulating and reporting cost data will be established separately as required by Commander Task Group 7.3.

8. Finance.

a. To the extent that disbursing facilities are available within his task unit, each task unit commander will provide such service to all personnel of his task unit. In case disbursing facilities are not available, or are considered to be inadequate, the task unit commander will request Commander Task Group 7.3 to designate an activity to furnish the required service.

b. Disbursing service, as referred to herein, will include maintenance of military pay accounts, payment of travel claims of military and DOD civilian personnel, cashing of authorized negotiable

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Annex D - Logistics Plan

instruments and exchange of checks or Disbursing Officer's Military Payment Orders for cash to individuals or non-appropriated funds.

c. Reports of surveys on lost, damaged or destroyed government property will be prepared and processed in accordance with the existing service regulations. For the purposes of Army and Air Force regulations, task unit commanders are considered installation level commanders and Commander Task Group 7.3 the reviewing authority. Required reports of survey will be initiated promptly upon the discovery of loss, damage or destruction of government property.

9. Audits.

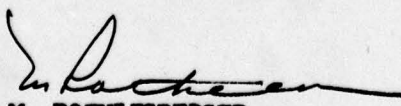
a. Audits or inspections of military property accounts will be accomplished as required by the responsible agency of the service concerned, and in accordance with service directives.

b. Audit schedules will be as provided for in service regulations, or as modified by request of Commander Task Group 7.3. Specific instructions will be issued by Commander Task Group 7.3 if the necessity arises.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

Appendix:

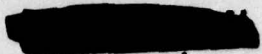
I - Information and Instructions Regarding Funding and Accounting


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.


Operation Plan
CIG 7.3 No. 1-55

25 March 1955; 1000R

Appendix I to Annex D

Information and Instructions Regarding Funding and Accounting

1. General.

AFSWP letter, file SWFFP/973.1, serial 85, dated 15 February 1954 and enclosure thereto, quoted herewith, provides information and instructions regarding funding and accounting for Operation WIGWAM.

DEPARTMENT OF DEFENSE
ARMED FORCES SPECIAL WEAPONS PROJECT
P.O. BOX 2610
WASHINGTON 13, D. C.

15 February 1954

"SWFFP/973.1
"Serial 85

"SUBJECT: Information and Instructions Regarding Funding and Accounting for Operation WIGWAM

"TO: Distribution List

"1. In compliance with a directive from the Chief of the three military Services, the Chief, Armed Forces Special Weapons Project, is making plans and preparations for Department of Defense Participation in Operation WIGWAM. This operation is to be conducted by a joint task force under the direction of the Chief of Naval Operations acting as Executive Agent for the Joint Chiefs of Staff.

"2. As in the case of previous joint operations of this nature, it is a responsibility of the Chief, AFSWP, to budget for the extra expense and for the research and development cost of DOD participation, and to administer such funds as are made available to the AFSWP for the operation.

"3. The responsibility for budgeting and for administration of funds includes the duty of insuring that only the established objectives of the operation are budgeted and funded; that maximum economy of funds, material and manpower is employed in attaining these objectives; and that all equipment, facilities and other capital investments used in the operation are properly safeguarded and accounted for. In addition, cost data must be accumulated to permit

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Regarding Funding and Accounting

"SWPFP/973.1

"Serial 85

"SUBJECT: Information and Instructions Regarding Funding and Accounting for Operation WIGWAM

reporting as required to the Secretary of Defense and to permit accurate budgeting for future operations. The instructions contained herein are for the purpose of carrying out this responsibility with respect to funds transferred by the AFSWP to participating agencies for use in Operation WIGWAM.

"4. The costs of DOD participating will be funded from three sources, the funds from each source being chargeable for expenses of a different nature. The three categories into which all expenses will fall and the source of funding for each category are as follows:

"a. Normal Service operating expenses (defined generally as those costs that would be expected to accrue to the individual Services regardless of participation in this particular operation) will be funded in the normal manner by the individual Services.

"b. Extra Service expenses (defined generally as those costs of a support nature, over and above normal military expenses, which accrue from participation in the operation) will, regardless of the Service involved, be funded from funds budgeted by the Chief, AFSWP, and normally included in the annual appropriation, Maintenance and Operation, Army.

"c. Research and Development costs (defined generally as the costs of the scientific phases of the operation) will be funded from funds budgeted by the Chief, AFSWP, and normally included in the Appropriation 21X2040, Research and Development, Army. The scientific phases of the operation will consist of the scientific projects and programs less certain military phases of these projects and programs which are considered to fall in the category of extra Service expenses (subparagraph b. above).

"5. Participating agencies are expected to make the determination as to which costs should properly be charged as normal Service operating expense and which should be funded by the Chief, AFSWP. The inclosure is furnished only to indicate which costs should be considered as normal Service operating expense. It is desired to eliminate the necessity for participating agencies to determine

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whether the additional costs are extra Service expense, or research and development costs. Therefore, the AFSWP will determine which phases, or tasks, of each project should be funded from which of the AFSWP sources, and will furnish funds for the individual phases and tasks accordingly.

"6. The acceptability of project cost and the actual funding therefor will be based on cost estimates to be furnished by participating agencies. In the case of projects requiring both types of funds, and possibly for some of the more comprehensive projects, estimates for the different phases or tasks of the projects will be required. In these cases, it will be necessary for the AFSWP to first define the phases or tasks. It is also desired that all estimates be made up by purposes as listed in the functional breakdown described in paragraph 9 below.

"7. Project proposals still to be submitted should include estimates by functional breakdown. All proposals currently in hand and those still to be received will be reviewed by the AFSWP to determine whether estimates by phases or tasks are needed. Each agency will then be asked by separate correspondence to furnish additional estimates as required.

"8. Functional reports of expenditures only will be required from those activities directly receiving AFSWP funds for this operation. Pending receipt of specific instructions relative to the frequency of reports for each project, monthly reports should be furnished. These should be mailed by the last day of the month following that for which the report is made, and should consist of a listing of current and total expenditures against each of the functional purposes for the separate phases of each project. For recording charges by functional purpose against working funds advanced to the Navy for this operation, Expenditure account numbers have been assigned by the Comptroller of the Navy. Therefore, if separate allotments are established for each phase of Navy projects, use of these expenditure account numbers will permit the Navy accounting system to generate the required expenditure data. Data as regards outstanding obligations will be requested only as required from time to time for special purposes. Therefore, the

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Regarding Funding and Accounting

"SWPFP/973.1

"Serial 85

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reporting specified herein replaces the requirement for inclusion of WIGWAM funds in the Monthly Report of Obligations and Expenditures (Reports Control Symbol HQSWP-37), which is still required with respect to AFSWP funds held for other purposes.

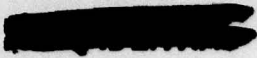
"9. The functional breakdown described below results from the desirability of having the purposes listed correspond to the items of cost normally used in compiling budget estimates for operations of this nature. Effective management of funds also requires this correlation. Since the purposes listed can not be reconciled with the standard object classifications established by the Bureau of the Budget, it is necessary to prescribe this additional grouping of expenditures. These purposes are listed, described, and matched to their respective Navy expenditure account number as follows:

<u>PURPOSE</u>	<u>EXPENDITURE ACCOUNT NO.</u>
"a. Pay and Allowances of Special Personnel	98051
Chargeable for salaries and allowances of personnel (other than Civil Service Groups II, III and IV-A) especially employed for the project and whose pay has not been provided for in the operating budget of the activity or source. Example: A laboratory hires an additional scientist or engineer, or borrows one from a non-Service institution on a reimbursable basis.	
"b. Travel and Per Diem of Project Personnel	98052
Chargeable for the costs of travel performed solely for purposes of the project. Example: An activity sends a representative to a conference called by the program director, or to another activity to make arrangements for services or material needed for the project. (NOTE: Normal travel funds should be used whenever the travel is more for the normal business of the activity.)	

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Appendix I to Annex D - Information and Instructions
Regarding Funding and Accounting


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<u>PURPOSE</u>	<u>EXPENDITURE ACCOUNT NO.</u>
"c. Construction Labor	98053
Chargeable for the costs of labor - Civil Service Groups II, III, IV-A and similar - employed in the fabrication or rehabilitation of facilities and equipment for the project. Example: The usual "labor" charges applied to job orders for industrial work and the pay of personnel especially hired for construction purposes.	
"d. Overhead and Incidental Charges	98054
Chargeable for the usual industrial overhead costs, shares of fixed expenses, fees, etc., for work on the project. Examples: The overhead charges applied to industrial job orders. Fees of a commercial concern, over and above the charges for labor, material, etc.	
"e. Construction Materials	98055
Chargeable for material used in the fabrication or rehabilitation of project facilities and equipment. Example: The material consumed incident to the labor charged under c. above.	
"f. Operation and Maintenance of Project Equipment	98056
Chargeable for operation and maintenance costs of non-Service-owned project facilities or equipment. Example: Fees charged for the use of a ship which is owned by a contractor.	

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Regarding Funding and Accounting

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<u>PURPOSE</u>	<u>EXPENDITURE ACCOUNT NO.</u>
"g. Purchase of Special Equipment	98057
Chargeable for the costs of special project equipment procured by means other than local manufacture. Example: The cost of special instruments, cameras, etc. (NOTE: Special equipment manufactured locally is chargeable to c., d. and e above.)	
"h. Transportation of Material	98058
Chargeable for the costs of packing, handling and shipment of project material as made necessary by the requirements of the project. Example: Shipment of instruments from a laboratory to a designated staging point. (NOTE: Shipments normally chargeable to the transportation funds of the individual Services should be so charged unless the material involved is specifically for this operation; i.e., manufacturing material en route to an industrial activity for fabrication into project material should not be charged unless the material is special for the project.)	
"i. Cost of Reports	98059
Chargeable for costs, not included above, of producing or reproducing technical reports required for the operation. Example: Cost of producing project technical reports and motion picture films of the operation.	

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Regarding Funding and Accounting

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PURPOSE

EXPENDITURE
ACCOUNT NO.

"j. Other Costs

98050

Chargeable for all project costs not included above and not chargeable to other sources of funds. Every effort should be made to break down all costs into the foregoing purposes. For management purposes, it will be necessary for the program director and the AFSWP to determine the identity of large charges under this line item. It is especially desired that the cost of contractual services be so broken down, even though the division of cost between the various foregoing line items must be estimated by the project agency.

"10. The Chief, AFSWP, is particularly concerned with insuring economy of material and proper accountability. With the view to making maximum use of material already available to AFSWP, a catalog of such material will be made available upon request to the Commanding General, Field Command, AFSWP, P. O. Box 5100, Albuquerque, New Mexico, Attention: Directorate of Weapons Effects Tests. The records of this office indicate that a copy of the "AFSWP Text Equipment Catalog" has been furnished to most of the addressees. Before additional purchases amounting to \$100 or more are made of material listed in this catalog, it is desired that the activity requiring the material make a direct request to the Directorate of Weapons Effects Tests for loan of the listed material, or whatever portion of it is needed. If DWET reports the material already committed for other purposes, the activity is authorized to proceed with procurement from other sources.

"11. With regard to material accounting, government activities will comply with current instructions of their respective departments, on the basis that expenditure of AFSWP funds for the purchase or

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"SUBJECT: Information and Instructions Regarding Funding and Accounting for Operation WIGWAM

fabrication of equipment, etc., results in AFSWP title to the property concerned. All such equipment, etc., involving an initial unit or aggregate cost of \$100 or more, is considered accountable for as plant property. Accordingly, each such purchase or fabrication must be followed by the submission of a custody receipt to the program director who will forward same to the proper unit of the AFSWP for establishing the necessary records of accountability.

1 Incl:

Cy of Memo from Asst.SecDef
dtd 9 March 1953, subject:
"Assumptions for Operating
Expenses of Atomic Weapons
Tests," w/attachment

/s/ A. R. LUEDECKE
A. R. LUEDECKE
Major General, USAF
Chief, AFSWP"

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Appendix I to Annex D - Information and Instructions
Regarding Funding and Accounting

"ASSISTANT SECRETARY OF DEFENSE
Washington 25, D. C.

9 March 1953

"COMPTROLLER

"MEMORANDUM FOR: THE SECRETARY OF THE ARMY
THE SECRETARY OF THE NAVY
THE SECRETARY OF THE AIR FORCE
CHAIRMAN, JOINT CHIEFS OF STAFF
CHAIRMAN, RESEARCH AND DEVELOPMENT BOARD
CHAIRMAN, MILITARY LIAISON COMMITTEE
CHIEF, ARMED FORCES SPECIAL WEAPONS COMMAND
JOINT TASK FORCE COMMANDERS

"SUBJECT: Assumptions for Operating Expenses of Atomic Weapons Tests

"The attached assumptions are approved as a basis for the division of funding between the Services and the Task Force, and are approved with the understanding that this list is not all inclusive but is an outline of the distinction between normal operating expenses which will be financed by the Services and extra expenses which are to be financed out of funds made available to the Task Force Commander.

"These assumptions supersede similar assumptions covered by a memorandum to the Chief of the Armed Forces Special Weapons Project under date of 12 January 1951, which is hereby rescinded.

"It is requested that addressees give these assumptions sufficiently wide circulation via appropriate internal channels so that all personnel within departments and agencies who may deal with atomic test matters or the support thereof will be equally informed.

Attachment

Inclosure 1

/s/ W. J. McNeil
/t/ W. J. McNeil"

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CTG 7.3 No. 1-55

Appendix I to Annex D - Information and Instructions
Regarding Funding and Accounting

"DIVISION OF FUNDING
BETWEEN THE SERVICES AND THE TASK FORCE

"1. The following are 'Normal Service Operating Expenses' and will be financed by the Services:

- "a. Pay and allowances of all service personnel.
- "b. All costs of subsistence of service personnel.
- "c. Cost of special clothing normally furnished service personnel when employed in severe climates,
- "d. Cost of travel and transportation of personnel to first Task Force duty station upon initial assignment and travel and transportation from last Task Force station to next regular duty assignment. All costs of travel and transportation of the member, his family, and household goods incidental to a permanent change of station when assigned to or relieved from assignment to the Task Force.
- "e. Medical and dental services for military personnel.
- "f. Ships, aircraft, boats and other standard equipment and supplies necessary for the operation, including maintenance, parts, POL and consumable supplies required in support of the Department of Defense participation.
- "g. Packing, handling and transportation to Task Force of equipment and supplies furnished by the Services for the support of the Task Force.

"2. The following are 'Extra Expenses' and are to be financed out of funds made available direct to the Task Force Commander, provided facilities, equipment or modification are not to be continued in use by the Service after completion of the Task Force requirement:

- "a. Costs of modification to and subsequent restoration of equipment, aircraft, or ships requested by the Task Force Commander.
- "b. Costs of activation and subsequent inactivation of ships, aircraft and small craft requested by the Task Force Commander.

Attachment to Inclosure 1

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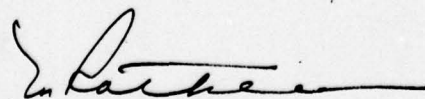
Operation Plan
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Regarding Funding and Accounting

- "c. Costs of construction and rehabilitation of existing structures and facilities at the test site required by the operations of a Task Force Commander in connection with approved Department of Defense test programs.
- "d. Cost of transportation of personnel attached to the Task Force and traveling under orders of the Task Force Commander, including costs of temporary duty travel as well as any permanent changes of station travel other than those covered in l.d. above while assigned to the Task Force.
- "e. Administrative expenses incurred by Task Force and Task Force Headquarters.
- "f. Cost of equipment required for the operation of the Task Force which is not standard to any of the military services.
- "g. Costs of packing, handling and shipment of special equipment required by Task Force (as distinguished from such cost relating to Service support).
- "h. Costs of material or services required by the Task Force Commander from activities operated under working capital funds, regardless of the department which is executive agent for the activity.

Attachment to Inclosure 1"

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander



M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Annex E

Technical and Scientific Test Plan

1. The Commander Task Unit 7.3.1 is responsible for the preparation and conduct of the Technical and Scientific Test Plan. He will be responsible for the preparation of the reports on these experiments and tests, for arranging for their publication, for their appropriate classification and for distribution as required by the Chief, Armed Forces Special Weapons Project and as coordinated with the Atomic Energy Commission.
2. Any changes to the test programs which affect the scope of the test will be forwarded to CTG 7.3 for approval. Other changes may be made at the discretion of CTU 7.3.1.
3. The following scientific test programs and projects will be conducted:

a. Program I (TE 7.3.1.1)

(1) Purpose

To investigate the transient underwater free-field and surface phenomena associated with a deep underwater nuclear explosion.

(2) Program Director

LtCol George F. Watkins, USAF

(3) Projects

- | | | | |
|-----|---------------|---------------------------------|--|
| (a) | Project 1.1 | Energy Distribution Studies | C. J. Aronson,
Naval Ordnance Laboratory (NOL) |
| (b) | Project 1.2 | Underwater Free-Field Pressures | C. J. Aronson, NOL |
| (c) | Project 1.2.1 | Underwater Free-Field Pressures | J. Paul Walsh,
Naval Research Laboratory (NRL) |
| (d) | Project 1.3 | Underwater Free-Field Pressures | T. McMillian, Navy
Electronics Laboratory (NEL) |

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Annex E - Technical and Scientific Test Plan

- (e) Project 1.4 Bubble Phenomena C, J. Aronson, NOL
(f) Project 1.5 Gross Surface Phenomena C. J. Aronson, NOL

b. Program II (TE 7.3.1.2)

(1) Purpose

To identify and measure the intensity of the radioactive products resulting from the detonation; to study the distribution and movement of these products in water and air; to determine their effect on local marine biology; and to determine the hazards to personnel on board ships traversing the contaminated area.

(2) Program Director

Eugene P. Cooper

Deputy Program Director

G. C. Ewing

(3) Projects

- | | | |
|-------------------|---|--|
| (a) Project 2.1 | Collection of Water Samples for Radiochemical Analysis | W. G. Van Dorn, Scripps Institution of Oceanography (SIO) |
| (b) Project 2.2 | Analysis of Radioactive Products | L. B. Lockhart, NRL |
| (c) Project 2.3 | Analysis of Radioactive Products | N. E. Ballou, Naval Radiological Defense Laboratory (NRDL) |
| (d) Project 2.4 | Determination of the Radiological Hazards to Personnel | M. B. Hawkins, NRDL |
| (e) Project 2.5 | Effect of Nuclear Explosion on Marine Biology | M. B. Schaefer, |
| (f) Project 2.6.1 | Mechanism and Extent of the Dispersion of Radioactive Products in Water | J. D. Isaacs, SIO |

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Annex E - Technical and Scientific Test Plan

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|-----|---------------|---|-----------------------|
| (g) | Project 2.6.2 | Mechanism and Extent of the Dispersion of Radioactive Products in Water | T. R. Folsom,
SIO |
| (h) | Project 2.7 | Intensity and Distribution of Radioactive Fall-Out | F. A. French,
NRDL |
| (i) | Project 2.8 | Determination of the Configuration of the Sub-Surface Array | Paul Horrer, SIO |
| (j) | Project 2.9 | Measurement of Secondary Effects | Lewis W. Kidd, SIO |

c. Program III (TE 7.3.1.3)

(1) Purpose

To measure and evaluate the loading by and the response of three submerged targets to the shock wave; to determine the effect on the instrument barges caused by the shock wave; and to design, construct and outfit the three targets and their associated instrumentation barges.

(2) Program Director

CDR David R. Saveker, USN

(3) Projects

- | | | | |
|-----|---------------|--|---|
| (a) | Project 3.1 | Target Response - Hull Damage | G. Chertok, David Taylor Model Basin (DTMB) |
| (b) | Project 3.2 | Target Response - Shock Motions | H. L. Rich, DTMB |
| (c) | Project 3.2.1 | Target Response - Shock Motions | J. P. Walsh, NRL |
| (d) | Project 3.3 | Target Vibration Characteristics | F. F. Vane, DTMB |
| (e) | Project 3.4 | Interior Damage Photography of Submerged Targets | H. L. Rich, DTMB |
| (f) | Project 3.5 | Exterior Damage Photography of Submerged Targets | J.R.R. Harter, |

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Annex E - Technical and Scientific Test Plan

- | | | |
|-----------------|---|---|
| (g) Project 3.6 | Determination of Target Depth, Trim, Heading and Flooding | H. L. Rich, DTMB |
| (h) Project 3.8 | Design, Construction and Outfitting of Submarine Targets | LCDR T. F. Bacheler, USN, Long Beach Naval Shipyard (LBNSY) |
| (i) Project 3.9 | Modification and Outfitting of Instrument Barges | J. N. Shellabarger, NEL |

d. Program IV (TE 7.3.1.4)

(1) Purpose

To provide for the procurement, placement and arming of the nuclear weapon at deep submergence, to determine its performance by means of radiochemical and hydrodynamic analysis, and to evaluate the energy transfer from water to air as shown by air overpressure measurements above the surface of the water.

(2) Program Director

Harlan E. Lenander

(3) Projects

- | | | |
|-----------------|--|---|
| (a) Project 4.1 | Placement of Weapon | A. K. Billmeyer, Naval Ordnance Test Station (NOTS) |
| (b) Project 4.2 | Weapon Assembly | H. North, AEC, Sandia Corporation (SC) |
| (c) Project 4.3 | Radiochemical Determination | R. Spence, AEC, Los Alamos Scientific Laboratory (LASL) |
| (d) Project 4.4 | Close-in Time of Arrival of Shock Wave | F. B. Porzel, Armour Research Foundation (ARF) |
| (e) Project 4.5 | Overpressures in Air Resulting from a Deep Underwater Nuclear Detonation | J. H. Scott, AEC (SC) |

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- e. Program V (TE 7.3.1.5) Timing and Firing B. J. O'Keefe,
Edgerton, Germes-
hausen & Grier, Inc.
(EG&G)
- f. Program VI (TE 7.3.1.6) Technical and Report Harold Albert, Look-
Photography out Mountain Labor-
atory (IML)
- g. TE 7.3.1.7 Radiological Support Element CAPT G. G. Molumphy,
USN

(1) Purpose

To transit the area surrounding the surface zero with suitably equipped remote controlled survey ships.

- h. TE 7.3.1.8 Oceanographic Support Element James Faughn, SIO

(1) Purpose

To survey the operating area and conduct oceanographic investigations prior to, during and subsequent to the conduct of the operation.

4. Task unit commanders provide support to the scientific effort as follows:

- a. CTU 7.3.2 (See Air Plan (Annex H))
- (1) Three AD-5N aircraft for early radiation and temperature survey and for dropping water samplers.
 - (2) Six AF for sample return to NAS, North Island.
 - (3) Two HRS for radiation monitoring.
 - (4) HRS for passenger and material lift as required.
 - (5) HRS for spectral analysis.
- b. CTU 7.3.3

Two DDR's for precision tracking of AD-5N and C-54 aircraft and surface units. (See Annex R).

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Annex E - Technical and Scientific Test Plan

c. CTU 7.3.4

- (1) Two ARS and one AN to lay instrument strings for Projects 1.2 and 1.4.
- (2) One ARS to transport weapon from CURTISS to zero barge if required.
- (3) ASR to support underwater television of Project 3.5.
- (4) COMSTOCK to transport helium trailers for Project 4.5 and instrument float LCM's for Projects 1.2, 1.3 and 4.5.
- (5) Provision to place instrument float LCM's and helium balloons within the array.
- (6) Small boat transportation as required to transport passengers and material within the array.
- (7) LSD transportation to and from the test site for one Scripps Institution of Oceanography buoy boat.

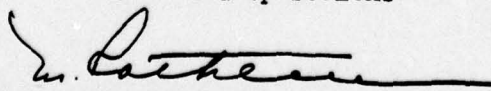
d. CTU 7.3.5

- (1) Three C-54 and two RB-50 for aerial photography.
- (2) Three MATS transport type aircraft for sample return from NAS, North Island to NAS, Moffett Field, Kirtland AFB and Andrews AFB.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander

Appendixes:

- I - Sketch of Target Array
- II - YAG Operations


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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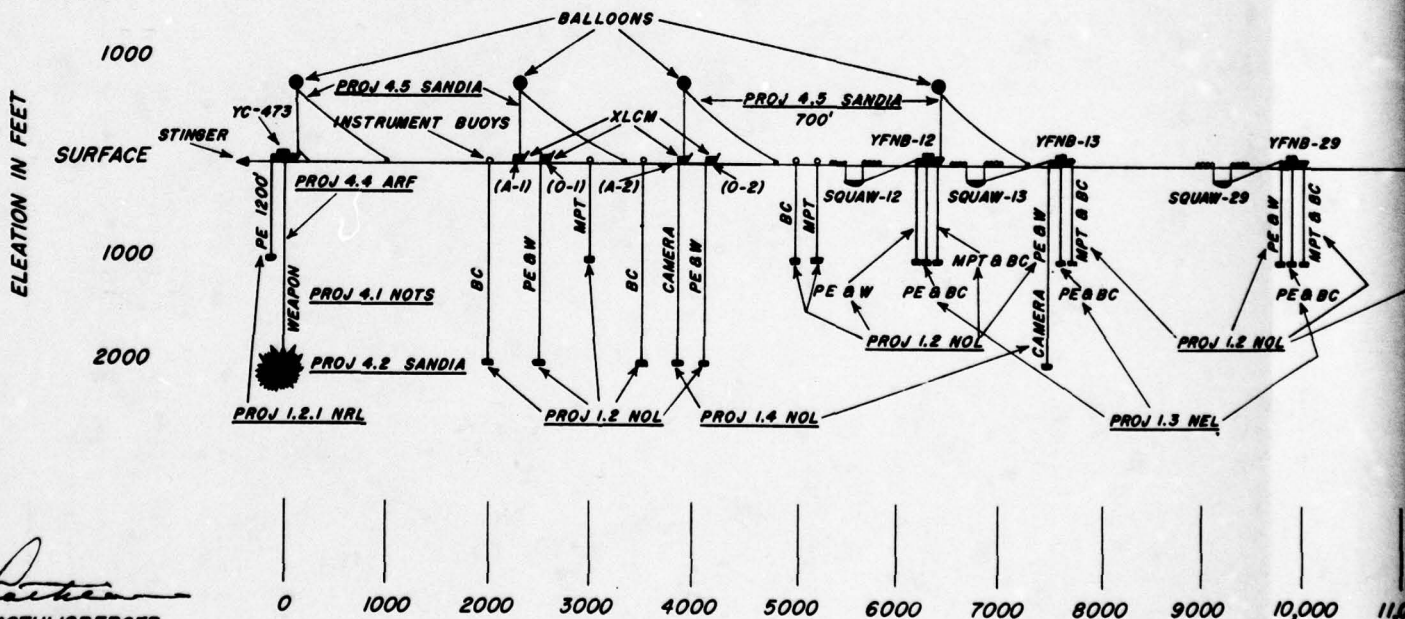
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OPERATION PLAN
CTG 7.3 No. 1-55

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M. Rothlisberger
M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

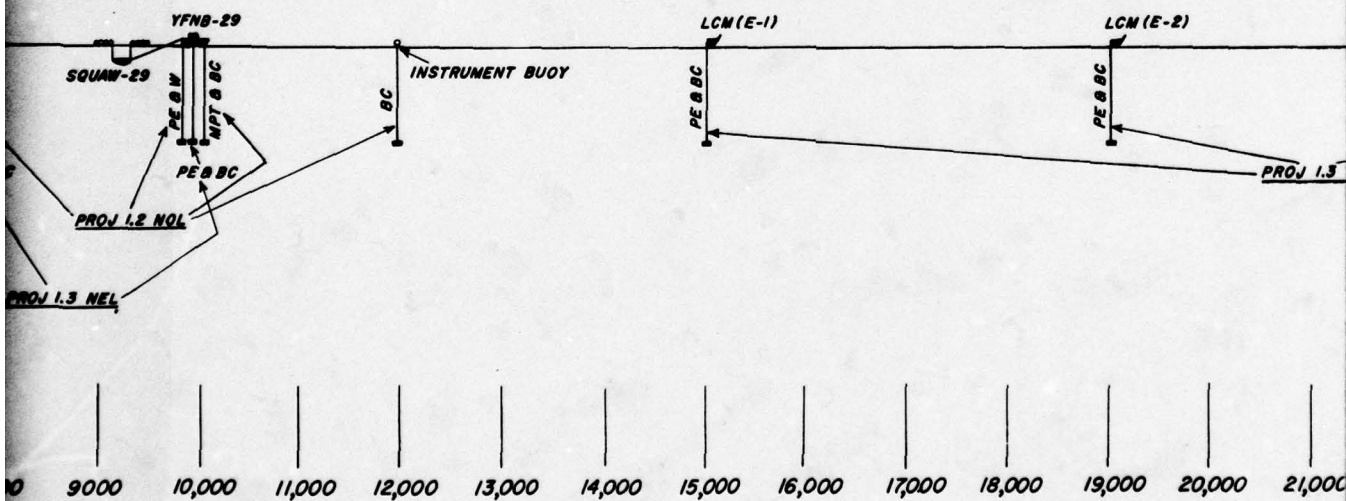
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Appendix I to Annex E **SKETCH OF TARGET ARRAY** **OPERATION WIGWAM**

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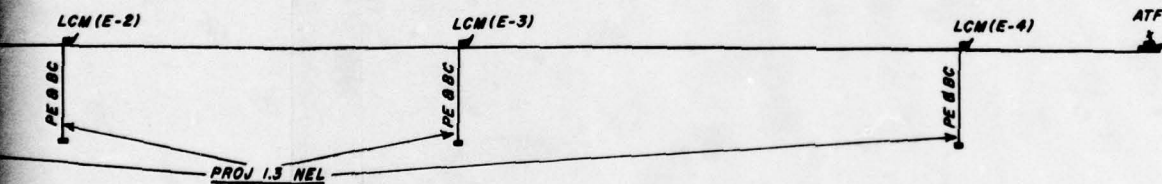
JOINT TASK FORCE SEVEN
TASK GROUP 7.3
WASHINGTON 25, D.C.
25 MARCH 1955; 1000R

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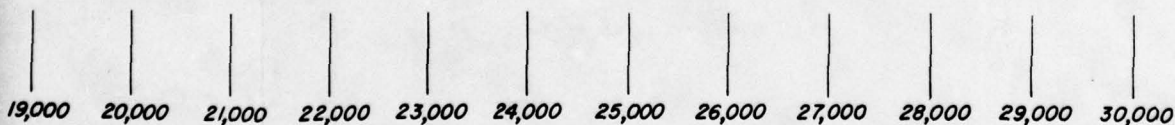
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GAGES

- BC - BALL CRUSHER
- NPT - MECHANICAL PRESSURE TIME
- PE & W - ELECTRONIC PRESSURE TIME
- PE & BC - ELECTRONIC BALL CRUSHER



JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

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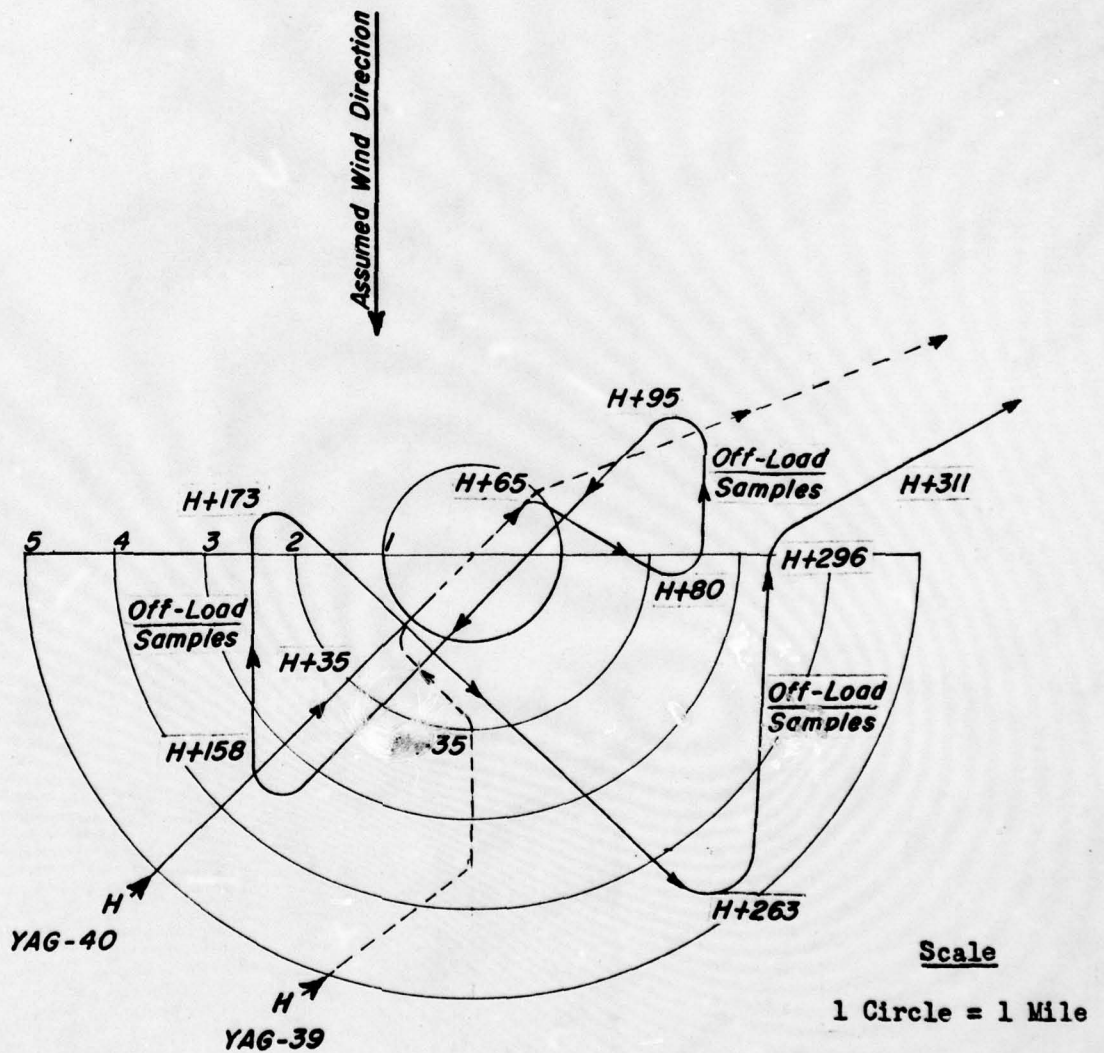
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Task Group 7.3
Washington 25, D.C.
25 March 1955; 1000R

Appendix II to Annex E
YAG Operations



M. Rothlisberger
M. ROTHLISBERGER
LCDR, U. S. Navy
Flag Secretary

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JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander

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Joint Task Force SEVEN
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Washington 25, D. C.

25 March 1955; 1000R

Annex F

Intelligence, Security and Public Information Plan

1. Part I - Intelligence.

a. Summary of Enemy Potential (considered herein as Soviet)

It is considered that interference with the mission or compromise of the activities of Task Group 7.3 could be effected by:

(1) Reconnaissance

The only logical capability the USSR has currently to interfere with or provide reconnaissance of Task Group 7.3 operations is by submarines based in the Soviet Far East. Two (2) Soviet "S" class submarines are reported to have been transferred to the Chinese Communists, although it is not believed that these would be used against Task Group 7.3. The USSR Far East based long range submarines are as follows:

	Maximum Operating Radii (1 day on station)
5 Long Range (NC)	4700
10 L-Class Long Range	3750
8 S-Class	3100

These submarines are based at Vladivostok, Petropavlovsk and Port Arthur and the probability of their being resupplied at sea must be considered.

(2) Espionage

Espionage could be accomplished by the penetration of personnel into the task group, or the defection of personnel within the task group.

(3) Sabotage

Sabotage could be accomplished by the penetration of personnel into the task group, the defection of personnel within the task group, or by subversive action while at the staging area.

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(4) Failure of Task Group 7.3 Personnel to Observe Security Precautions

Failure of Task Group 7.3 personnel to observe security precautions could compromise the mission by their talking or writing about classified information during the planning and operational stages. A lapse in communication security could also reveal vital information. Failure to carry out personnel security regulations may permit physical penetration within the task group.

(5) Overt Action by Vessel or Aircraft

Overt action by vessel or aircraft could take the form of attack by bomb, gunfire or torpedo.

(6) Unauthorized Instrumentation

Compromise could be effected by the surreptitious "planting" of instruments by submarine and recovery in the same manner after completion of the operation.

b. Conclusions

It is considered that an unfriendly power having an interest in the task group mission would more probably manifest such interest by attempting to gain information through either espionage or by submarine observation. It is believed that information as to the operations of Task Group 7.3 and the results thereof would be of more practical value to an unfriendly power than would attempts to hinder or impede the operation. The possibility of overt action by Soviet units is considered extremely remote, and would occur only incident to a general state of war between the Soviet Union and the United States.

2. Part II - Security.

a. Policy

The Commander Task Group 7.3 is responsible for maintaining the security of classified information, the physical security of classified materials and security against intrusion into operating areas to the degree required by Department of Defense, Atomic Energy Commission, Fleet and Joint Task Force SEVEN directives. Each person in the task

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Annex F - Intelligence, Security and Public Information Plan

group is responsible through his element and unit commander for his own actions in carrying out the security program. All such commanders are responsible for investigating and reporting to the Task Group Commander all violations of security regulations which occur within their jurisdiction. The detailed means of carrying out the security program will be contained in security instructions to be issued separately.

b. General Security Concept

The general concept of the measures to be taken to provide security is as follows:

(1) Personnel participating in the operation will be cleared for loyalty and security in accordance with their varying degrees of responsibility and access to classified information. In all cases, the minimum acceptable is a CONFIDENTIAL military clearance.

(2) The pre-operational or staging area is under the protection of COMSICALSECWESEAFRON.

(3) Security regulations published by the DOD and the AEC continue to apply to members of the task group:

(a) OpNav Instruction 5510.1A*)
Army Regulation 380-5) for appropriate units
Air Force Regulation 205-1)
GM Bulletins (AEC))

(b) TG Security Instructions)
Espionage Act)
Atomic Energy Act, 1954) All task group personnel
AEC-DOD Classification Guide)
WIGWAM Classification Guide)

(4) The Task Group Commander is responsible for security indoctrination of members of his command.

* United States Navy Security Manual for Classified Matter, 1954.

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(5) Each task unit and ship participating will have an officer designated as Security Officer whose duties will include security indoctrination and training as required in conformance with paragraph 2b(3)(a) and 2b(3)(b) above.

c. Classification Criteria

A classification guide for Operation WIGWAM concerning all pertinent classification criteria has been issued for guidance and compliance.

d. Personnel Clearance

(1) The Task Group Commander is responsible that all personnel participating in Operation WIGWAM are cleared in accordance with the provisions of this plan and implementing Task Group Security Instructions.

(2) Personnel clearances will be granted in accordance with the following OPNAV INSTRUCTIONS:

- (a) 5510.1A*
- (b) 005510.2A+
- (c) 05510.5C
- (d) 5510.3C

(3) Clearances for AEC and AEC contractor personnel will be governed by current AEC regulations. A "Q" clearance will be recognized as valid for access to classified military information on a "need to know" basis.

e. Security Areas

(1) The establishment of security areas for the purpose of enforcing security regulations will be the responsibility of the Task Group Commander. Classified area categories as defined by AEC GM Security Bulletin No. 18 are:

*U.S. Navy Security Manual for Classified Matter, 1954
+AEC-DOD Classification Guide

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Annex F - Intelligence, Security and Public Information Plan

(a) Exclusion Area

A security area containing a security interest which is of such a nature that access to the area constitutes, for all practical purposes, access to the security interest contained therein, such as:

1. Designated areas aboard the MT MCKINLEY (AGC-7).
2. Special weapons spaces aboard the CURTISS (AV-4).
3. Weapon Support Barge - when so designated by the Task Group Commander.

(b) Limited Area

A security area containing a security interest in which area uncontrolled movement could permit access to the security interest contained therein, but such access may be prevented by escort or other internal restrictions and controls, such as:

1. Laboratory workshop and office spaces as designated by the Task Group Commander.
2. Weapon Support Barge.
3. Interiors of YFNB's and submarine targets - when so designated by the Task Group Commander.

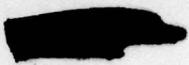
(c) Controlled Area

A security area adjacent to or encompassing limited or exclusion areas and within which area uncontrolled movement does not permit access to a security interest, and which is designated for the principal purpose of providing administrative control, safety, or a buffer area of security restrictions for limited or exclusion areas.

- (2)** Other areas which may require designation as classified areas will be established at the direction of the Task Group Commander.

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Internal security requirements and access to these areas will be determined by the Task Group Commander. Security or guard forces afloat will be the responsibility of the commanding officers of the ships concerned. Security or guard forces ashore will be the responsibility of the Task Group Commander.

f. Clearance Requirements.

Minimum clearance requirements for access to security areas are designated as follows:

<u>Security Areas</u>	<u>Task Group Clearance Requirements</u>	<u>AEC Clearance Requirements</u>
Exclusion Area	"Q" or Military Clearance as required and Access List	"Q" Clearance and Access List
Limited Area	Secret Military Clearance or Confidential Military Clearance Under Escort	Same. No access to exclusion area.
Controlled Area	Confidential Military Clearance	


"Q" cleared individuals may be granted access to limited and/or controlled areas.

g. Badge System

A badge system will control access to and departure from exclusion and limited areas. The Task Group Security Officer will be responsible for procurement and issue of badges as set forth in Task Group Security Instructions.

h. Security Patrols

The Task Group Commander will be responsible for the necessary security patrols of the task group shore-based security areas,


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utilizing to the fullest extent existing security forces at the U. S. Navy Electronics Laboratory and U. S. Naval Station, San Diego. Air security patrols for WIGWAM operational area will be the responsibility of the Commander Land Based Air Support Unit. Surface security patrols for WIGWAM operational area will be the responsibility of the Commander Surface Patrol Unit.

i. Counterintelligence

Counterintelligence activities as required will be the responsibility of the Task Group Commander. The Task Group Security Officer has established and will maintain liaison with the District Intelligence Officer, 11th Naval District, and with such other intelligence agencies as may be deemed necessary.

j. Communication Security

Communication security and monitoring of communications will be accomplished as directed by the Task Group Commander.

k. Photography

Only official photography is authorized in any of the task group areas during the operational period. All such official photography will be reviewed by the Task Group Classification Officer for proper classification and determination of Restricted Data. Prior to review and final classification by the classification officer, all photography will be given a preliminary classification of SECRET, RESTRICTED DATA.

l. Travel Security Control

Inasmuch as Operation WIGWAM will be conducted at sea, travel to and from the test area will be controlled by the Task Group Commander.

m. Contact Reports

The procedure for submarine contact reporting is defined in

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CINCPACFLT INSTRUCTION 03360.2B*, dated 14 April 1953. Air search, antisubmarine patrol and surface patrol units will comply with its provisions when carrying out security patrol in the WIGWAM operating area, keeping the Task Group Commander fully informed.

n. Security Control of AEC Accountable Material

(1) The AEC will be responsible for the delivery of SS material and other classified weapons materials from the point of origin to a point to be designated where custody will be assumed by the Commander, Joint Task Force SEVEN or his designated representative. Primary custodial responsibility for the weapons and SS material will remain with Commander, Joint Task Force SEVEN, or his designated representative until the weapon and SS material is expended or returned to custody of the Atomic Energy Commission.

(2) The Commanding Officer, USS CURTISS (AV-4), will be responsible for security control of SS material and other classified weapons material delivered on board the CURTISS.

(3) The Commanding Officer, USS CURTISS (AV-4), will be the responsible custodian of atomic weapons and atomic weapons components as defined in paragraph 2, OPNAV INSTRUCTION 5510.19, dated 26 March 1953, and will provide security measures as required by OPNAV INSTRUCTION 05510.26, of 15 February 1954.

(4) When directed by Commander, Joint Task Force SEVEN, or his designated custodial representative, the Commanding Officer, USS CURTISS (AV-4), will deliver to designated personnel of the task group the necessary weapon(s) and SS material incident to the carrying out of the mission of the task group.

3. Part III - Public Information.

a. Commander Task Group 7.3 has been directed to insure that, within Task Group 7.3, there be no deliberate publicity in connection with Operation WIGWAM

*"Unidentified or Hostile Submarine Contacts; procedures for"

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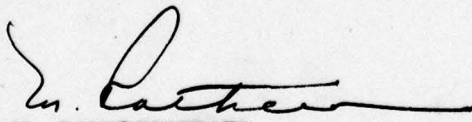
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- b. Task Group 7.3 does not release any public information.
- c. Releases to the press, if any, in regard to Task Group 7.3 operations and activities will be made only by the AEC or DOD.
- d. Personnel of Task Group 7.3 are prohibited from releasing any information for publication, in regard to the task group or its activities. They must neither confirm nor deny any articles appearing in the press. Queries from the press or elsewhere will be answered with the statement that the person or unit to whom the query is made is "engaged in a classified naval operation and no additional information can be furnished." The word "naval" is emphasized in order to preclude inference as to the joint nature of the operation. No amplification of the statement in quotes above will be made.
- e. AEC-DOD releases, if and when made, will be disseminated to units of Task Group 7.3 through normal communication channels at the earliest possible time.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Annex G

Radiological Safety Plan

1. General.

a. Radiological safety of task group military and civilian personnel is a command responsibility and radiological safety activities will be performed through normal command channels.

b. Radiological safety (RadlSafe) operations is a general term which denotes the means by which a unit attempts to prevent the occurrence of hazards to personnel and equipment resulting from the spread of radioactive material. With this end in view it includes such measures as training, organization and distribution of certain personnel; development of techniques and procedures for use of radiological detection equipment; protection or removal of exposed personnel; and decontamination of personnel, structures and equipment.

c. Following the detonation there will be areas of surface radiological contamination and, possibly, limited areas of aerial radiological contamination. Detailed instructions on the control of ships and planes to avoid these areas will be promulgated later.

2. Mission.

The purpose of the radiological safety organization is to provide:

- a. Protection of personnel and equipment.
- b. Effective training of personnel.
- c. Evaluation of the effectiveness of radiological safety training and radiac equipment.

3. Phases.

To carry out its mission, the radiological safety operations of Task Group 7.3 during Operation WIGWAM are divided into three phases.

- a. Pre-shot Phase.
- b. Shot Phase.
- c. Roll-up Phase.

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Annex G - Radiological Safety Plan

4. Pre-shot Phase General Requirements.

a. The pre-shot phase shall be utilized by all subordinate commands in:

- (1) Developing operational efficiency to carry out all phases of RadlSafe through training.
- (2) Filling of operational equipment allowances.
- (3) Maintenance and calibration of radiac equipment.
- (4) Establishment of personnel decontamination facilities.

b. Developing Operational Efficiency

(1) RadlSafe Training of Certain Individuals

Instructions on this training will be promulgated separately.

(2) RadlSafe Training of Crews

This training will be accomplished in conformance with applicable instructions from administrative commanders.

c. Maintenance and Calibration of Radiac Equipment

Each ship will require its entire allowance of radiac equipment in good operating condition. Units of Task Group 7.3 are responsible for the maintenance of their own radiac equipment. For calibration and repairs beyond the capacity of ship's force, assistance can be obtained from the Radiac Repair Facility, San Diego (Corner Vesta and Main St., telephone BELmont 2-6911, Ext. 1118) when in port and from the Task Group RadlSafe Project Officer on board the USS WRIGHT (CVL-49) at other times. Failure report cards and equipment history cards shall be used with all radiac instruments. Each unit shall depart for the forward area with not less than 100% spare batteries for radiac instruments. These batteries should be ordered as early as practicable, as some are in short supply.

d. Personnel Decontamination Facilities

Decontamination stations as described in NWIP 50-1, NavPers 10886, and applicable instructions from administrative commanders shall be in operating condition on each ship to permit showering and monitoring exposed personnel. Fabrication of these facilities is considered to be within the capability of ship's force.

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Annex G - Radiological Safety Plan

5. Shot Phase General Requirements.

- a. If ships of the task group are contaminated by personnel or material coming on board, every effort shall be made to localize the contamination. Standard decontamination procedures as outlined in NWIP 50-1, NavPers 10886 and Appendix II of this annex shall be used to remove contamination.
- b. Decontamination of personnel and disposal of contaminated material shall be as provided in Pacific Fleet Instructions, NWIP 50-1, NavPers 10886, and Appendix II to this annex.

6. Roll-Up Phase General Requirements.

- a. All subordinate commands in TG 7.3 shall make the following reports by letter to CTG 7.3 and mail these reports in the first port entered after the operation, not later than three working days after entering port:

- (1) Instances of contamination of either personnel or equipment covering the following: Time after shot when first noticed, intensity, type of radioactivity encountered, estimated initial time of contamination, methods of decontamination, effectiveness thereof, and final disposition of contaminated items.

- (2) Radiac equipment performance, adequacy of spares, etc. Such reports should include operational difficulties in use of equipment and an estimate of the adequacy of personnel training methods.

- (3) That all radiac instruments borrowed from the RadlSafe Project Officer have been returned, or exception, if any.

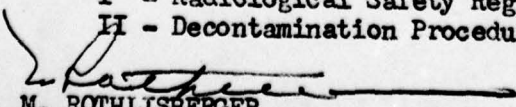
7. Code Words.

Attention is invited to the code words on page C-II-4 of this Operation Plan. Use of these code words will make many message unclassified which otherwise would be classified.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

Appendixes:

- I - Radiological Safety Regulations
- II - Decontamination Procedures



M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.


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25 March 1955; 1000R

Appendix I to Annex G

Radiological Safety Regulations

1. General.

The Maximum Permissible Exposures (MPE's) and Maximum Permissible Concentrations (MPC's) as stated herein are applicable to a field experimental test of a nuclear device in peacetime wherein numbers of personnel engaged in these tests have been previously exposed or may be continuously exposed to potential radiation hazards. The regulations set forth herein are considered to be reasonable and safe. They are designed to minimize personnel exposures with due regard to the importance of the test and the cost aspects of operational delay occasioned by excessive radiological precautions. Special instances may arise such as in the case of air-sea rescue, or in the case of a tactical situation, in which operations will be carried out without regard to the MPE's and MPC's prescribed herein. For such emergency or tactical operations the criteria prescribed below for tactical situations will be used as a guide. Film badges will be carried and RadlSafe monitors will accompany such operations to determine the extent of the actual radiation hazard experienced in order that appropriate medical action may be initiated.

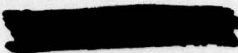
2. Maximum Permissible Exposure.

- a. The MPE for personnel involved in this operation is 3.9 roentgens (gamma only). This exposure may be acquired at any time during the operation, and may be acquired without regard to the individual's past radiation history unless there has been previous over-exposure requiring continuing compensation.
- b. A special MPE of 20 roentgens (gamma only) is authorized for the duration of the operation for personnel engaged in collection and handling of critical water samples necessary for yield determination. These personnel will number approximately ten, and will be designated by CTG 7.3 prior to the operational period.
- c. Beta radiation exposure to the hands should not exceed 30.0 rep for the operational period.
- d. The MPE's are subject to revision by waiver from the Task Group Commander in individually designated cases when circumstances indicate a need and justification therefor.

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Appendix I to Annex G - Radiological Safety Regulations

e. All exposure to film badges worn on the body torso will be regarded as total body irradiation.

3. Maximum Permissible Concentrations (MPC's).

Maximum Permissible Concentrations (MPC's) are not to be confused with MPE's (see paragraph 2 above) or with Final and Operational Clearances (see paragraph 5 below). MPC's listed herein are to be regarded only as advisory limits for control under average conditions, and may be exceeded by a task unit commander when in his opinion this action is justified. Task unit commanders must use their judgement to "get the job done" and also stay within the MPE specified in paragraph 2a above. Contamination should be reduced and maintained as low as practicable consistent with "getting the job done."

a. Personnel and clothing MPC's are as follows:

(1) Contamination on the skin should be removed by thorough scrubbing until skin readings are as low as practicable. In general, it is not considered profitable to abrade the skin or scalp in an attempt to reduce stubborn contamination below 1 mr/hr (gamma only). In cases where skin contamination cannot be readily reduced to 1 mr/hr (gamma only) by bathing, the ship's RadlSafe Officer should be contacted for guidance.

(2) Contamination on underclothing and body equipment such as the internal surface of respirators should be reduced as low as practicable, and to a value lower than 2 mr/hr (gamma only).

(3) Contamination on outer clothing should be reduced as low as practicable, and to a value lower than 7 mr/hr (gamma only).

b. Ship, Boat and Aircraft MPC's

(1) It is desired to point out that the employment of the ships and units in TG 7.3, insofar as radiological safety is concerned, is not considered routine usage within the purview of NavMed P-1325, "Radiological Safety Regulations." For WIGWAM, naval personnel are operating under regulations set forth by the Task Group Commander as approved by the Chief of Naval Operations.

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- (2) Ships, boats, and aircraft operating in or over waters near the shot point after shot time may become contaminated. Monitors shall be aboard all such craft operating after shot time, either as passengers or members of the crew, until such time as radiological restrictions are lifted.
- (3) Task unit commanders shall take necessary action to ensure that personnel of ships, boats, and aircraft are not over-exposed to radiation and that ships, boats, and aircraft are not contaminated excessively. The criterion is that, except in emergencies or tactical operations, no personnel shall be over-exposed as defined by paragraph 2 above, and no ship, boat, or aircraft shall be contaminated to the degree that personnel aboard them receive more than 0.3 roentgens (gamma only) per week after the operational period.
- (4) For ships, boats, and aircraft operating in or over contaminated waters, reasonable allowances shall be made to differentiate between the relative contribution to the total flux from fixed contamination and that due to "Shine" from contaminated waters.
- (5) Alpha contamination is not expected to be a problem. If it is, special instructions will be promulgated.
- (6) Contamination on ships, boats, and aircraft shall be reduced as much as practicable, and except in unusual cases to a value lower than 7 mr/hr (gamma only). A surface is not decontaminated sufficiently when two square inches of filter paper rubbed lightly over twelve square inches of the contaminated surface and then held one-half inch from the open window of an AN/PDR-27 type instrument read more than 0.5 mr/hr above background. Advice can be obtained from the staff of CTG 7.3.
- (7) When a ship or boat is in contaminated water for an appreciable period of time, some of the contamination becomes attached to the hull and interior of the salt-water systems. There is only a very slight probability that this problem will be serious on any ships except the YAG's. This type of contamination entails no internal, beta, or alpha hazard to people aboard, but only an external gamma hazard. In general, decontamination of this type of contamination will not be practicable or necessary during Operation WIGWAM. This type of contamination can be minimized by keeping vessels in

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contaminated water only as long as necessary for the accomplishment of their missions. After the detonation, each ship other than the YAG's shall be monitored for radioactivity every four hours, or oftener if considered advisable by the commanding officer, until leaving the vicinity of the detonation, with special attention to evaporators and condensers. Commanding officers shall notify CTG 7.3 promptly of any cases where it appears that contamination of this type may result in exposure of personnel to more than 1 roentgen during the operation. Estimates of exposure should be realistic; for example, if an engineering space has an intensity of 50 mr/hr one inch from a condenser, and 2 mr/hr at a place 10 feet from the condenser where a man stands watches 8 hours per day, the estimated exposure of this man is $2 \times 8 = 16$ mr/day and not $50 \times 8 = 400$ mr/day.

4. Tactical Situations.

In tactical situations the OTC must make the decision regarding allowable exposures, and the MPE's described above do not apply. As military personnel are normally subject to only random exposure, health hazards are at a minimum. Current Department of Defense information on exposure to gamma radiation in tactical situations is indicated below:

- a. Uniform acute (immediate) exposure of 50 roentgens to a group of Armed Forces personnel will not affect their efficiency as a fighting unit.
- b. Uniform acute exposure of 100 roentgens will produce in occasional individuals nausea and vomiting, but not to an extent that will render Armed Forces personnel ineffective as fighting units. Personnel receiving acute radiation exposure of 100 or more roentgens should be given a period of rest and individual evaluation as soon as possible.
- c. Uniform acute exposure of approximately 150 roentgens or greater can be expected to render Armed Forces personnel ineffective as troops within a few hours through a substantial incidence of nausea, vomiting, weakness and prostration. Mortality produced by an acute exposure of 150 roentgens will be very low and eventual recovery of physical fitness may be expected.
- d. Operational commanders should, therefore, assume that if substantial numbers of their men receive acute radiation exposures substantially above 100 roentgens there is a grave risk that their commands will rapidly become ineffective as fighting units.

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e. Internal hazards following a contaminating underwater explosion may be avoided if ordinary sanitary precautions are taken, such as washing the face and hands before eating. Only under unusual circumstances will there be internal hazard from residual contamination.

f. The aircraft controller in a tactical situation shall make every effort to keep planes clear of aerial contamination to the maximum extent allowed by the tactical situation.

5. Final and Operational Clearance.

At the conclusion of the operation, final clearances will be granted by the Task Group Commander, or by commanding officers if so ordered, to those ships, boats and planes showing no point of contamination greater than 15 mr/day (beta and gamma) and no detectable alpha. Other craft will be granted operational clearances by the Task Group Commander, or by commanding officers if so ordered. An operational clearance implies that contamination exists and that special procedures as necessary are instituted on board ship.

6. Duties of Monitors.

RadlSafe monitors assigned during recovery operations shall act in an advisory capacity to keep the persons in charge of recovery operations informed of radiation intensities at all times. The persons in charge shall accept this advice and act accordingly. It is the responsibility of the person in charge to adhere to the limits established in these regulations. The RadlSafe monitor shall limit his activities to monitoring and will not engage in actual recovery operations.


7. Film Badges.

a. Film badges shall be worn by all personnel. A film badge shall be issued to each individual to be worn during the entire operation. Each of these badges will be processed at the conclusion of the operation to give the official integrated radiation dosage for the legal-medical records. In addition, personnel expected to receive significant radiation will be issued additional film badges to be processed on a daily basis so that immediate checks can be made on the rate of dosage accumulation and the possibility of over-exposures minimized.

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- b. All personnel shall be cautioned to wear their film badges at all times, to avoid losing them, and to avoid ruining them by laundering or other methods.
- c. Additional film badges, dosimeters and protective clothing (coveralls, booties, caps, gloves, etc.) as deemed necessary shall be issued to personnel expected to receive significant radiation and/or contamination by appropriate task group RadlSafe supply sections. All personnel dosage film badges shall be procured from and returned to representatives of the laboratory on board the WRIGHT where all processing and recording will be accomplished. No other personnel dosage film badges shall be used during this operation.
- d. Detailed instructions for issue and return of film badges will be promulgated separately.

8. Exposure Records.


The RadlSafe Project Officer will maintain standard type film badge records of radiation exposures for all task group personnel. Records will indicate full name, rank or rate, serial or service number, if applicable, organization, home station or laboratory, date of exposure, and remarks such as limitations on assignment because of exposure. Upon completion of the operation, disposition of these records will be as follows:

- a. A consolidated list of exposures listing military personnel, and civilian personnel under military control, by full name, rank or rate, serial or service number (if applicable), organization, home station or laboratory and exposure in milliroentgens together with exposed film badges and control film badges will be forwarded to the Chief, AFSWP.
- b. A consolidated list of personnel and exposures will be forwarded to the Director, Division of Biology and Medicine, AEC.
- c. Individual records of Navy military and civilian personnel will be forwarded to their unit of assignment for inclusion in the individual's health record (Medical History Sheets and NavMed H-8). Military personnel who have received an average of more than 0.3 roentgen (gamma only) per week since 1 January 1955 will be advised that they should not be exposed to further nuclear radiation until sufficient time has elapsed to bring their average radiation dose subsequent to 1 January 1955 down to 0.3 roentgens (gamma only)

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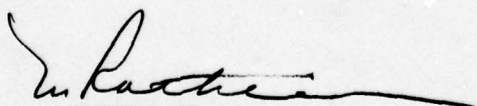
per week. Civilian personnel in this category will be informed that limitations on further radiation exposure will be as determined by the laboratory or agency having administrative jurisdiction over such personnel.

d. Upon completion of the above, letter reports from the RadlSafe Project Officer will be submitted through channels to the Chief, Bureau of Medicine and Surgery, and the Director, Division of Biology and Medicine AEC, indicating, in general, the action taken to dispose of individual dose records, comments on over-exposures, and any pertinent remarks considered of interest to the above offices.

9. Analysis of Drinking Water for Radioactivity.

It has been found in a previous operation that distilled water from evaporators is uncontaminated even though the evaporators become contaminated to a level of 20 mr/hr one inch from the evaporators. The explanation is that contamination does not distill with the water, but part of it goes overboard with the brine and the remainder becomes attached to the scale and condenser. Nevertheless, any commanding officer may at his discretion send samples of drinking water to the RadlSafe Project Officer on board the USS WRIGHT for an analysis for radioactivity.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander



M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.


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25 March 1955; 1000R

Appendix II to Annex G

Decontamination Procedures

1. General.

Radioactive contamination will probably at some time during Operation WIGWAM render an essential area or piece of equipment temporarily unusable. In such a situation, the reduction of such radioactive contamination may be mandatory to successful accomplishment of the operation. Decontamination of units and personnel shall be accomplished on the site to reduce the hazard to operational levels. It should be remembered that radioactive fission products decay as time passes, the most rapid decay taking place within the first few hours after detonation. To compute dosages, see "Radiological Defense," Vol II pp 223-229.

2. Reagents.

In most of the decontamination operations which might be required of Task Group 7.3, uncontaminated fresh or salt water sprayed under pressure shall be used for gross decontamination. Ordinarily, salt water should not be used on aircraft. Other reagents which are used where water is inappropriate or inadequate are: Soaps, detergents, standard cleaner USN C-152 or 147, 5-10% sodium citrate solution of USAF cleaning compound Spec. 20015 (gunk), kerosene and soap powders. Cleaners with an oil carrier are especially suitable for aircraft decontamination.

3. General Aircraft Decontamination Procedures.

a. If it has been determined through monitoring that decontamination is necessary, aircraft will be decontaminated at a shore facility or on board the WRIGHT, as circumstances indicate.

(1) Decontamination Operations on Board a Carrier (General Criteria)

In decontaminating aircraft on board a carrier, the following factors should be stressed:

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- (a) Area should be well isolated from personnel living spaces, ventilator intakes, etc.
 - (b) A clear watershed to the sea should be provided, if practicable, to prevent contamination of the vessel.
 - (c) Air circulation.
- (2) Decontamination Operations Aboard a Carrier (Specific)
- (a) Decontamination personnel shall be in decontamination suits. Decontamination suits shall ordinarily include the following:

NOMENCLATURE

STOCK NO.

Coveralls	G37-C-2570 (or equivalent)
Gloves, Electricians	G37-G-2295
Overshoes, rubber N-1	U37-O-69150
Cap, Marine Utility	73-C-59100 through 59104 (or equivalent)

This decontamination suit provides protection from contamination, and, for avoiding heat prostration, is much more satisfactory than a waterproof suit. The Marine utility cap is preferred to the Navy utility cap N-1, because more adequate head coverage is provided.

- (b) Decontamination personnel shall be restricted to the immediate area surrounding the contaminated aircraft. Support personnel are in the "clean" background area to manipulate equipment to the decontamination team.
- (c) The decontamination area should be clearly marked and roped off in some manner.
- (d) Every effort shall be made to prevent the contamination of the ship in the decontamination area.

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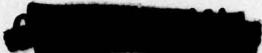
- (e) Provision should be made for disposal of contaminated items in the decontamination area (GI cans may be used for small objects).
- (f) All material leaving the decontamination area shall be monitored.
- (g) Decontamination operations shall be interrupted intermittently for monitoring of aircraft to determine effectiveness. Work periods should be calculated after intensity levels are measured.
- (h) Decontamination operations should continue until the level of intensity drops below 7 mr/hr (gamma only). If this level cannot be readily attained using the methods indicated herein, the RadlSafe Officer TG 7.3 should be contacted for instructions.
- (i) Where metal parts are contaminated and there is danger of damaging adjacent items of porous material, such as fabric, scrubbing with cleaning solution is effective.
- (j) If initial contamination is driven into paint, apply a solution containing 5 pounds lye, 5 pounds boiler compound, 1 pound starch and 10 gallons of water and scrub with wire brush or scrape to remove all paint. Apply cleaning solution and flush thoroughly with water. REMONITOR.

4. General Ship Decontamination Procedures.

- a. Spraying of the topside with non-radioactive water following an unavoidable exposure of a ship to radioactive fall-out will probably minimize the necessity for further decontamination. The interior of the ship is preserved in its "clean" status by setting of the appropriate damage control condition of readiness to seal the ship's envelope.
- b. Should the above method fail to prevent contamination, decontamination suits shall be worn to protect the damage control parties who must work on the contaminated sections of the ship. In the use of

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Appendix II to Annex G - Decontamination Procedures

water after the ship has been exposed to contamination, special techniques are required to control the contaminating spray resulting from hosing operations. If possible, the hosing of an object should be carried on from the upwind side so that the spray will not drift back on the operators. The most satisfactory operating position is from 15 to 20 feet from the surface. On vertical surfaces, the water should be directed to strike the surface at an angle of 30 to 45 degrees. The complication of a brisk wind can be partially offset by using a wind-break. For hosing down large contaminated areas, a decontamination rate of approximately 4 square feet of surface area per minute should be used. Special attention must be given to the drainage from these operations to allow direct flow to disposal points over the side.

c. Hosing is not the complete answer to decontamination; scrubbing techniques may have to be used.

d. Wooden surfaces, if contaminated, can be decontaminated as outlined below under General Boat Decontamination Procedures.

5. General Boat Decontamination Procedures.

a. If boat exterior, i.e., painted surface, is contaminated from passage through contaminated water, hosing down and scrubbing if necessary should be sufficient to reduce any contamination to well below prescribed tolerances. If boat is water-borne, drainage from hosing down should present no problem. Dispersal of radioactive products in the sea is anticipated to be sufficient to prevent re-contamination of other boats. If interior of boat is contaminated, hosing down and pumping out over the side should suffice. However, repeated use of this method can concentrate some contamination in the bilge pump system which is not desirable, and this pump should be especially monitored.

b. Contamination can be introduced into boats by contaminated passengers, radioactive "fall-out," or seepage of contaminated water into bilges. It is considered most likely that any major contamination in the boats will come from contamination on passengers and equipment brought on board. Unpainted wood will not be as readily decontaminable as described above. Any contamination should be relatively

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Appendix II to Annex G - Decontamination Procedures

light. If relatively light and too resistant to normal hosing down, scrubbing and scraping, a coating of shellac, varnish or paint will usually effectively shield out alpha and beta radiation and seal it in until radioactive decay completes the process of removal of any health hazard. It is planned that all boat decontamination will be done in an open sea area where water disposal from low order of contamination and drainage is no problem.

6. General Personnel Decontamination Procedures.

a. At the completion of decontamination operations on shipboard, personnel concerned should be monitored on the spot - then shed outer (protective) clothing, gloves, booties, etc., disposing of same into covered containers. Personnel then are monitored and if necessary sent to a personnel decontamination center. (See Appendix I of this annex, para 3a).

(1) Ships damage control directives usually state that a "decontamination head" shall have an entrance from the weather deck, and a clean exit inside the ship. To prevent contamination from getting inside the ship, it is recommended that a temporary "change house" be installed on the weather deck with provisions for storing contaminated clothing.

b. Personnel upon completion of their duties in a contaminated area will be required to utilize the facilities within a "change house" and, if necessary, those within the decontamination head. They should be organized and operated in such a way that the following is insured:

(1) Monitoring of suspected contaminated personnel at "change house" ENTRANCE.

(2) Advising each person as to degree of contamination and spots more highly contaminated than others, paying special attention to soles of shoes, hands and hair.

(3) Instructions of incoming personnel where contaminated clothing should be disposed of. This clothing may require laundering or, as a result of decay of radioactive contamination, it may be possible to re-use it after a period of time without laundering.

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Appendix II to Annex G - Decontamination Procedures

- (4) Monitoring of personnel with and without clothing when clothing is contaminated.
- (5) Collection of dosimeters worn by persons entering decontamination centers.
- (6) Shower facilities where personnel will scrub thoroughly with particular attention to hair and hands when contaminated.
- (7) Second monitoring after shower and release of personnel if skin count is less than 1 mr/hr (gamma only). Washing should continue as necessary subject to the provisions of para 3a(1) of Appendix I to this annex.

7. Disposition of Contaminated Items.

Contaminated items which are impossible or impractical to decontaminate may be surveyed or kept in a space, such as a void, where they will not be hazardous to personnel until natural radioactive decay renders them harmless. Advice on disposition of contaminated items may be obtained from CTG 7.3. Contaminated items which will float shall not be thrown overboard except by permission of CTG 7.3.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Annex H

Air Plan

Task Organization

Commander Task Group 7.3

RADM John Sylvester

Tactical Air Control Detachment - TACRON 1

TU 7.3.2 Carrier Air Support Unit

CAPT T. P. Wilson

USS WRIGHT (CVL-49)
HMR 362
VS 21
VC 35

1 CVL
7 HRS-3
6 AF-2S
3 AD-5N

TU 7.3.5 Land Based Air Support Unit

CDR J. M. Barlow

TE 7.3.5.1 Air Patrol Element

CDR J. M. Barlow

VP-2

12 P2V-5

TE 7.3.5.2 Air Photographic Element

Lookout Mountain Laboratory

3 C-54
2 RB-50

TE 7.3.5.3 Sample Distribution Element

MATS

As assigned

TE 7.3.5.4 Hydrographic Survey Element

FASRON 110

3 P4Y-2

1. The concept and basic plan are as contained in the basic operation plan.

2. Mission.

Aviation units will conduct air control and air operations in support of mission as specified in paragraph 2 of CTG 7.3 Operation Plan No. 1-55.

3. Tasks.

a. The Tactical Air Control Detachment, (LAZARUS) located on board the USS MT MCKINLEY (AGC-7), will coordinate and control the following aircraft while in the test area:

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Annex H - Air Plan

- (1) Air patrol aircraft.
 - (2) Photographic aircraft.
 - (3) Radioactive sample return aircraft.
 - (4) Hydrographic survey aircraft.
 - (5) Intra-task group helicopter aircraft.
 - (6) Radiological survey and drop aircraft.
 - (7) Special air missions aircraft, if required.
- b. Commander Carrier Air Support Unit (CTU 7.3.2) will:
- (1) Provide logistic support for air activities based on board.
 - (2) Exercise air control in the immediate carrier vicinity to provide for launching, landing, etc., of aircraft.
 - (3) Provide helicopters and coordinate scheduling of intra-task group helicopter service.
 - (4) Provide carrier aircraft for air missions as scheduled in Appendix I to this annex.
 - (5) Be the search and rescue commander of all Task Group 7.3 units in the area, and coordinate search and rescue facilities between the operating area and CONUS.
- c. Commander Land Based Air Support Unit (CTU 7.3.5) will:
- (1) Execute air schedules, Appendix I, in accordance with instructions prescribed in Appendix II, Air Patrol Plan (TE 7.3.5.1).
 - (2) Execute air schedules, Appendix I, in accordance with instructions prescribed in Appendix V, Air Photographic Plan and as amplified in Photographic Plan (Annex I) (TE 7.3.5.2).
 - (3) Execute air schedules, Appendix I, in accordance with instructions prescribed in Appendix III, Radiological Survey, Air Drop and Sample Return Plan (TE 7.3.5.3).
 - (4) Execute air schedules, Appendix I, and as amplified in Annex K, Aerological Plan (TE 7.3.5.4).

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Annex H - Air Plan

4. Reports in accordance with Appendix VI.
5. Communications in accordance with Annex C, Communications Plan.

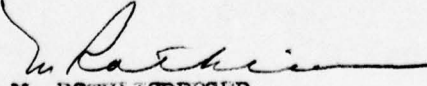
JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

Appendixes:

- I - Air Schedules
- II - Air Patrol Plan
 - Tab A - Search Plan I
 - Tab B - Search Plan II
 - Tab C - Sample Flight Plan
- III - Radiological Survey, Air Drop & Sample Return Plan
 - Tab A - Manuevering Plan for Drop and Survey Aircraft
- IV - Helicopter Utilization Plan
- V - Air Photographic Plan
 - Tab A - RB-50 Photo Track Diagram
 - Tab B - C-54 Photo Track Diagram
- VI - Special Instructions and Safety Plan

Notes:


1. Supplementary air photographic instructions contained in Photographic Plan (Annex I).
2. Air search and rescue instructions contained in Annex L, Search and Rescue Plan.
3. Air communications instructions contained in Annex C, Communications Plan.
4. Air contact and development instructions contained in Annex N, Contact Identification and Development Plan.
5. Hydrographic survey in accordance Annex K, Aerological Plan.


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Appendix I to Annex H

Air Schedules

1. D-30 to D-5 Day.

a. Hydrographic survey missions will be conducted as directed by the Task Group Weather Central. See Annex K, Aerological Plan.

b. Helicopter photographic missions can be expected from D-7 Day until completion of exercise.

c. One helicopter will be assigned from the WRIGHT (CVL-49) to the FORT MARION (LSD-22) from D-8 to D-5 Day to be used as required by CTU 7.3.4

2. D-5 to D-Day.

a. Area Search Missions

TE 7.3.5.1 will conduct a continuous patrol of the test area commencing at 1200 on D-5 Day.

b. Hydrographic Survey Missions

Hydrographic survey will be conducted as directed by Task Group Weather Central.

c. Helicopter Missions

Intra-task group transportation of personnel as necessary. HRS craft with special survey instruments will be available to the RadSafe Unit for tests and operations as required. Photographic missions will be scheduled as required.

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Operation Plan
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Appendix I to Annex H - Air Schedules
D-DAY

Event No.	Mission	No/Type Aircraft	On Station	Call (Side No.)	Report To	Loading Arm/Fuel	Notes
1.	Air Search	1 P2V-5	0000 to 2400	CAPECOD	LAZARUS on TATC Net	800 rds 20 MM or 200 rds 50 Cal. 16-AN/SSQ-2 sonobuoys 20 Mk V Smoke lights	1. Operate as directed in Appendix II 2. Hourly position/weather reports on Air Patrol Net 3039 KCS.
2.	Radl Survey & Water Sample Collector/Radiac Drop (Survey 1)	1 AD-5N	H-1 Hr to H/3 Hr H/4 Hr to H/6 Hr	Survey 1	LAZARUS on TATC Net	2 guns 100 rounds 20 MM each	1. First survey pass to commence at H/5 min. 2. Radiac instrument drop at H/10 min. 3. Drop water sample collectors as necessary. 4. Show IFF Mode 1. 5. See Appendix III.
3.	Radl Survey & Water Sample Collector/Radiac Drop (Survey 2)	1 AD-5N	H-1 Hr to H/3 Hr H/4 Hr to H/6 Hr	Survey 2	LAZARUS on TATC Net	2 guns 100 rounds 20 MM each	1. Water sample collector drop at H/10 min. 2. Drop radiac instruments as necessary. 3. Show IFF Mode 2. 4. See Appendix III.
4.	Helicopter Visual and Radl Survey	1 HRS	H/15 Min to H/105 Min	(Side No.) CLIFFBUSH	LAZARUS on TATC Net		1. Conduct survey of tow ARRAY and area as directed. 2. See Appendix IV.
5.	Helicopter Sample Container Re-covey	2 HRS	H/30 Min to completion of mission	(Side No.) CLIFFBUSH	LAZARUS on TATC Net		1. Recover air dropped sample containers from water when directed and return containers to USS WRIGHT.

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CTG 7.3 No. 1-55


Appendix I to Annex H - Air Schedules

D-DAY

Event No.	Mission	No./Type Aircraft	On Station	Call	Report To	Loading Arm/Fuel	Notes
6.	Helicopter Sample Transfer	2 HRS	As required	(Side No.) CLIFFBUSH (Side No.) CLIFFBUSH	LAZARUS on TATC Net		1. Pickup samples from YAG-40. 2. Pickup times: H/80 min, H/158 min, H/296 min. 3. Pickup TWO will be airborne standby. 4. Contact YAG-40 on helicopter secondary. 5. See Appendix IV.
7.	Hydrographic Survey	3 P4Y 1 HRS	H-2 Hr to H-1 Hr	(Side No.) QUEEN BEE	LAZARUS on TATC Net		1. P4Y report to LAZARUS when approaching 150 miles of test area. 2. Conduct hydrographic survey. 3. HRS conduct pre-Hour low level air soundings. 4. See Annex K, Aerological Plan.
8.	Photographic	3 C-54 1 RB-50 1 HRS	H-60 Min to H/30 Min As required	DAGO 1 DAGO 2 DAGO 3 DAGO 4 (Side No.) CLIFFBUSH	LAZARUS on TATC Net		1. Conduct photo missions as directed. 2. See Appendix V. 3. See Appendix IV.

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CTG 7.3 No. 1-55

Appendix I to Annex H - Air Schedules

3. D+1 to D+10 Day.

a. Area Search Mission

TE 7.3.5.1 conduct a twenty-four (24) hour patrol of the test area.

b. Hydrographic Survey

To be conducted as directed by the Task Group Weather Central.
See Annex K, Aerological Plan.

c. Helicopter Missions

Intra-task group transportation, Photographic, Radiological Survey as necessary, Spectral Analysis Survey (D+1 and/or D+2 Day).

d. Carrier Sample Return

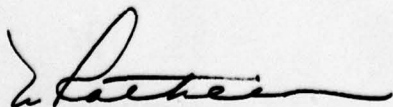
AF-2S type aircraft conduct sample return missions from carrier to NAS, North Island as necessary. Two planes will be prepared to take off at dawn on D+1 Day and D+2 Day. See Appendix III.

e. Air Sea Rescue

On station as necessary to cover Carrier Sample Return Aircraft. Search and Rescue Aircraft from U.S. Coast Guard will be requested by CTU 7.3.2 to be on station midway between operating area and CONUS when sample return aircraft are conducting return missions.

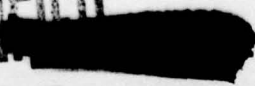
f. Sample Distribution

Military Air Transport Service (MATS) aircraft will be standing by at North Island (or designated alternate field) to receive samples from AF-2S aircraft. On D+1 Day one aircraft will proceed to NAS, Moffett Field (San Francisco area) with samples for the Naval Radiological Defense Laboratory; the second aircraft will proceed to Kirtland AFB (Albuquerque, N.M.) with samples for the Los Alamos Scientific Laboratory and then continue to Andrews AFB (Washington, D.C. area) with samples for the Naval Research Laboratory. On D+2 Day one aircraft will deliver samples to NAS, Moffett Field for the Naval Radiological Defense Laboratory. No other deliveries are planned.


M. ROTH LISBERGER
LCDR, U.S. Navy
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JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

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Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Appendix II to Annex H

Air Patrol Plan

1. General.

- a. An area patrol of the test area for the purpose of detecting all air, surface, and sub-surface craft not associated with the operation will be conducted by TE 7.3.5.1.
- b. Commencing at 1200 on D-5, a continuous visual and radar patrol will be maintained throughout the test area. This patrol will consist of one P2V-5 patrolling the area at all times. Relief by oncoming patrols will be effected on station, and at no time will a station be left unpatrolled (excluding emergency situations) without advising CTG 7.3. This patrol will be maintained until D+10 Day or until secured by controlling authority. Search Plan I, (Tab A) will be flown until D-1 and subsequent to D+1. Search Plan II (Tab B) will be flown D-1 through D+1.
- c. The patrol area is considered as that area with a radius of 75 nautical miles of Point ZEBRA. (See Annex N, Contact Identification and Development Plan).
- d. Patrols and ASW operations will be in accordance with doctrines set forth in ATP-1, other pertinent publications and Annex N, Contact Identification and Development Plan.
- e. Air Patrol units will be kept advised of the presence of any known friendly contacts. No friendly submarines will be in the area.
- f. Patrol elements will not fly within five miles of Point ZEBRA proceeding to, and departing assigned search area unless specifically cleared by controlling authority. Patrols will initiate searches at a point no closer than five miles from Point ZEBRA.
- g. The Air Patrol Element shall be familiar with the Surface Search Plan and will coordinate as practicable with TU 7.3.3, Surface Patrol Unit. The Surface Patrol Unit will maintain a continuous patrol of the test area at a radius of thirty miles from Point ZEBRA. Contact information shall be exchanged whenever possible.

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Operation 1-55
CTG 7.3 No. 1-55

Appendix II to Annex H - Air Patrol Plan

2. Control.

a. Patrols will report to LAZARUS (Tactical Air Direction Center) for control.

3. On Station Reports.

a. The patrol element base radio will advise CTG 7.3 when planes depart base for patrols and also when planes arrive base upon completion of patrols.

b. Each plane will contact LAZARUS (TADC) on the Tactical Air Traffic Control Net when approaching test area and will advise when on station, and thereafter forward a position and weather report every hour on the hour. Position and weather reports will be transmitted on the Air Patrol Net. (3039 KCS.)

(1) Position reports will include; identification, altitude, distance and bearing from Point ZEBRA.

(2) Weather reports will be given in the abbreviated weather code; VATB, unless conditions necessitate a more detailed report.

c. Contact and amplifying reports will be sent in accordance with special instructions contained in Annex N, Contact Identification and Development Plan. Contact reports will be transmitted on the Tactical Air Traffic Control Net; however, be prepared to shift to the Combat Information Net, (289.8 MCS) for control and coordination with CTU 7.3.3 (Surface Patrol Unit).

4. Communications.

a. Frequencies will be utilized as prescribed in Communications and Electronics Plan, Annex C.

b. Standard commercial and emergency air and surface frequencies will be available in the event it becomes necessary to communicate with contacts not associated with the operation.

5. Armament and Fuel Loading.

a. Search aircraft takeoff with a sixteen hour supply of fuel.

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Operation Plan
CTG 7.3 No. 1-55

Appendix II to Annex H - Air Patrol Plan

b. Unless otherwise directed the following armament will be carried:

- (1) 800 rounds 20 MM or 200 rounds 50 caliber.
- (2) 16 AN/SSQ-2 sono-buoys.
- (3) 20 MK V smoke lights.

6. Contact Instructions.

a. Action to be initiated on unauthorized vessels will be as set forth in Annex N, Contact Identification and Development Plan.

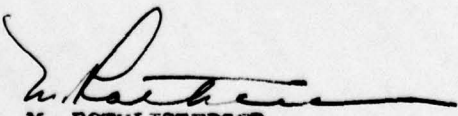
7. Standby Relief.

a. One aircraft will be maintained at base and be prepared to take off on 30 minutes notice. CTE 7.3.5.1 be prepared to dispatch this aircraft when directed in order to relieve any search aircraft which cannot carry out its mission because of mechanical difficulties or to assist in furthering action contacts.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

Tabs:

- A. Search Plan I
- B. Search Plan II
- C. Sample Flight Plan


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LCDR, U. S. Navy
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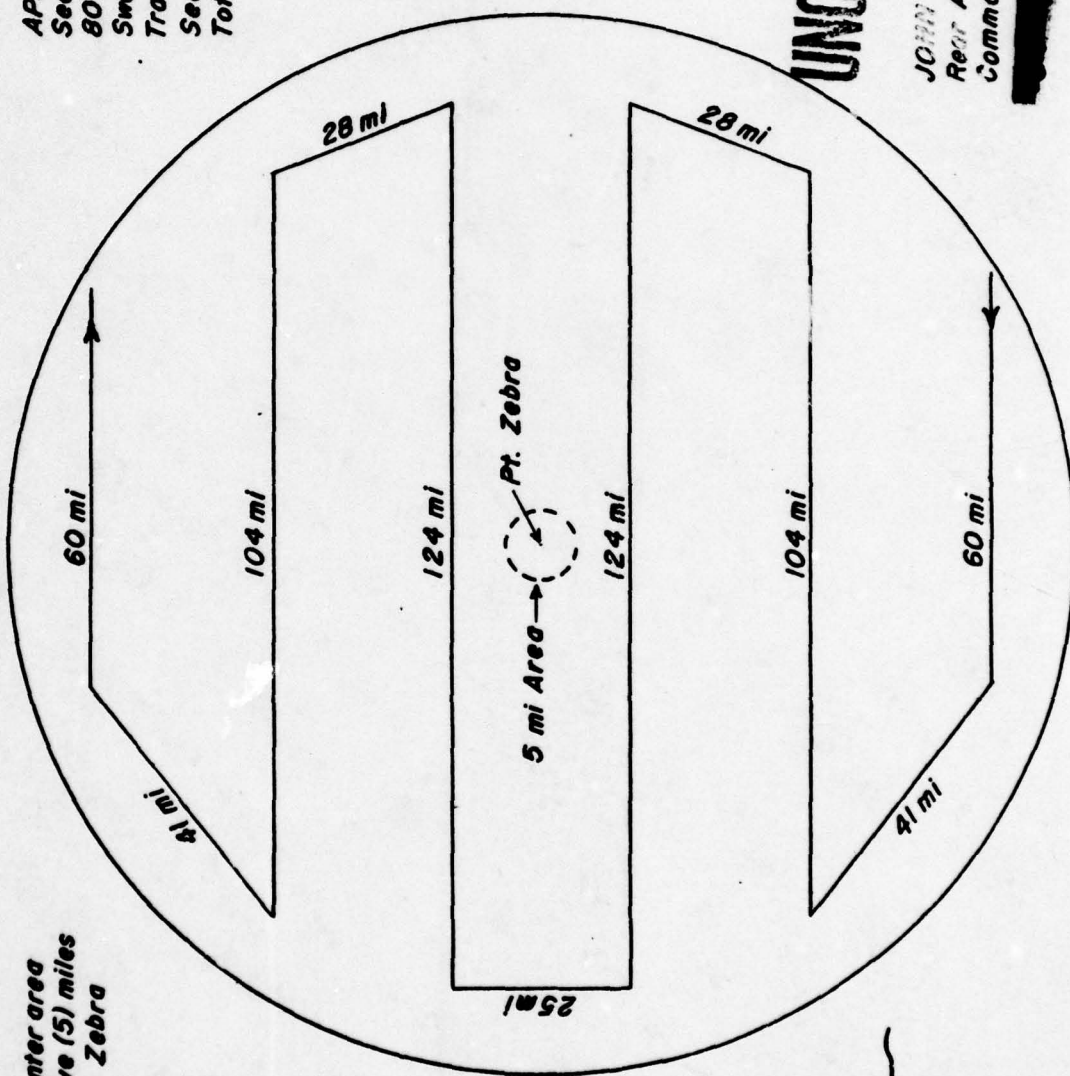
**JOINT TASK FORCE SEVEN
TASK GROUP 7.3
WASHINGTON 25, D.C.
25 MARCH 1955; 1000 R**

**APS-20B Radar
Search Plan I
80% Probability for Snorkel
Sweep Width - 25 mi
Track Spacing - 25 mi
Sea State - 2
Total Distance - 739 mi**

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Rear Admiral, U. S. Navy
Commander

Tab A to Appendix II to Annex H
Search Plan I



CONFIDENTIAL
OPERATION PLAN
CTG 7.3 No. 1-55

NOTE: Do not enter area within five (5) miles of Point Zebra

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W. Rothlisberger
M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

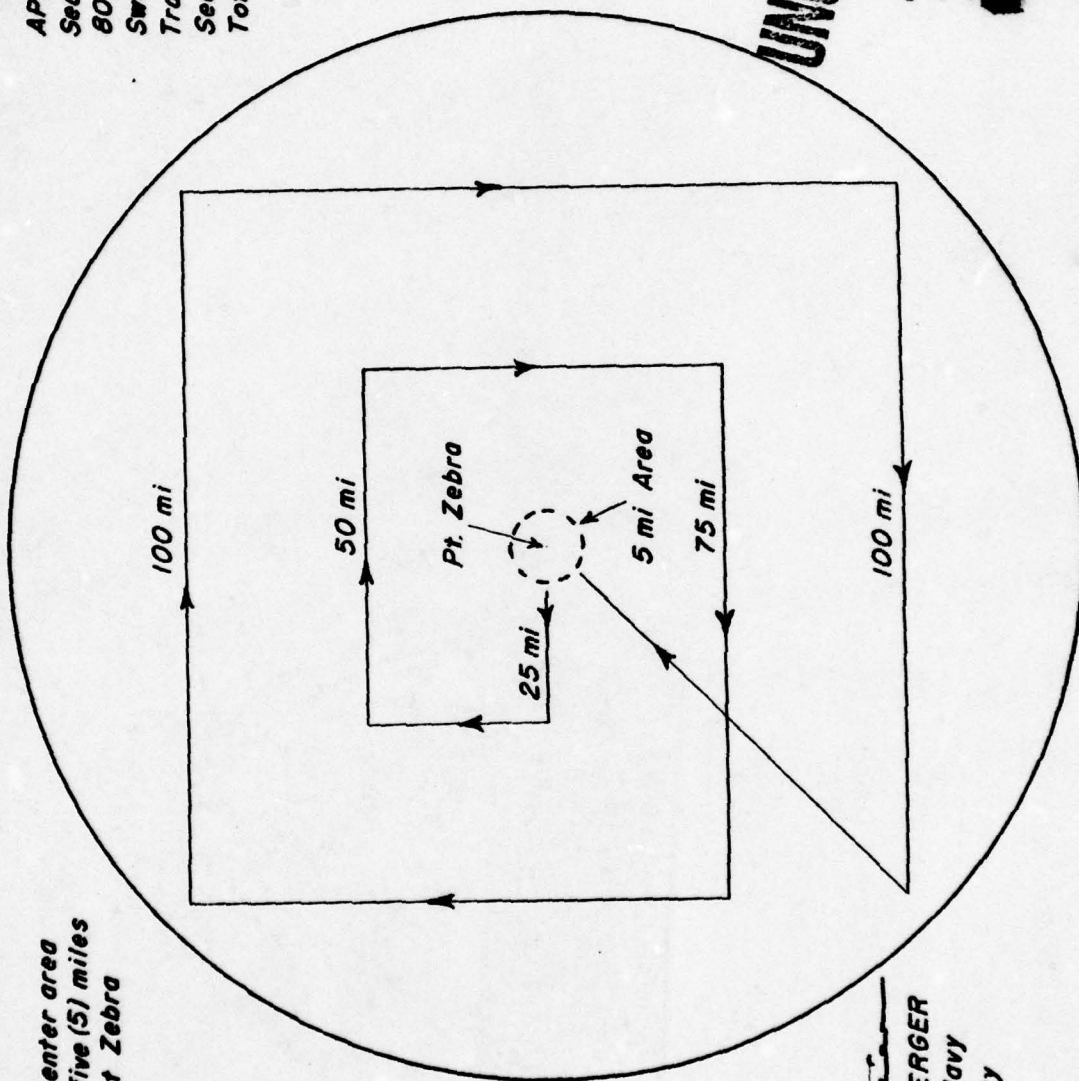
JOINT TASK FORCE SEVEN
TASK GROUP 7.3
WASHINGTON 25, D.C.
25 MARCH 1955; 1000 R

APS-20B Radar
Search Plan II
80% Probability for Snorkel
Sweep Width - 25 mi
Track Spacing - 25 mi
Sea State - 2
Total Distance - 600 mi

Tab B to Appendix II to Annex H
Search Plan II

CONFIDENTIAL
OPERATION PLAN
CTG 7.3 No. 1-55

NOTE: Do not enter area
within five (5) miles
of Point Zebra



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Rear Admiral, U. S. Navy
Commander

John
M. ROTHLISBERGER
LCDR, U. S. Navy
Flag Secretary

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Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D.C.
25 March 1955; 1000R

Tab C to Appendix II to Annex H
Sample Flight Schedule

CREWS												
	1	2	3	4	5	6	7	8	9	10	11	12
0800	ENR	STD BY										
	ON STA	ENR	STD BY									
1800	ENR	ON STA	ENR	STD BY								
		ENR	ON STA	ENR	STD BY							
0400			ENR	ON STA	ENR	STD BY						
				ENR	ON STA	ENR	STD BY					
1400					ENR	ON STA	ENR	STD BY				
						ENR	ON STA	ENR	STD BY			
2400							ENR	ON STA	ENR	STD BY		
								ENR	ON STA	ENR	STD BY	
1000									ENR	ON STA	ENR	STD BY
	STD BY									ENR	ON STA	ENR
2000	ENR										ENR	ON STA
	ON STA											ENR
0600	ENR											


M. Rothlisberger
M. ROTHLISBERGER
LCDR, U. S. Navy
Flag Secretary

H-II-C-1

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.


Operation Plan
CTG 7.3 No. 1-55

25 March 1955; 1000R

Appendix III to Annex H

Radiological Survey, Air Drop and Sample Return Plan

1. General.

a. Radiological/Temperature Survey and Air Drop Missions are independent missions. However, because of time and aircraft availability considerations these missions will be consolidated and conducted by AD-5N aircraft of Carrier Air Support Unit 7.3.2.

b. These missions are to be conducted on D-Day subsequent to H-Hour, as contained in air schedules, Appendix I to this annex. Two aircraft will be on station to execute these missions; each aircraft will have a duplicating mission should the other plane fail to execute its assignment.

2. Control.

a. AD-5N and AF-2S aircraft will report to LAZARUS on the TATC (Tactical Air Traffic Control) Net (339.4 MCS) for control. Be prepared to operate on TAD (Tactical Air Direction) Nets as contained in Communications and Electronics Plan, Annex.C. TAD #1 - 236.2 MCS, TAD #2 - 349.0 MCS.

3. Radiological/Temperature Survey.


a. This mission is to be conducted subsequent to H-Hour and is for the purpose of determining and forecasting the radiological and hydrographic conditions in the test area. Instruments capable of detecting and measuring the radiological conditions (aerial survey and bolometer gear), and two technicians and one observer to observe and interpret these instruments will be placed aboard each survey plane. Survey missions are planned for daylight hours only.

b. Survey aircraft No. 1 and No. 2 will take position 045° upwind on the starboard side of the ZERO BARGE at a distance of 5 miles and an altitude of 1500 feet (or below the overcast), and be prepared to commence run-in at H+5 minutes or when the radiological situation permits. The time specified for the initial run-in (H+5 min.) may be

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Operation Plan
CTG 7.3 No. 1-55

Appendix III to Annex H - Radiological Survey, Air Drop and Sample Return Plan

delayed; however, the initial run-in point and flight pattern for drops will remain constant.

c. The initial run will be approximately parallel to the array towards the SHOT ZONE to a point at which a starboard turn will permit the track to cross the array one thousand (1000) feet upwind of the SHOT ZONE at two minutes after start of run-in. This preliminary survey run will be conducted at an altitude of 1500 feet until past the SHOT ZONE area at which time altitude will be decreased to 500 feet in preparation for dropping runs. Survey plane No. 1 will be the lead plane throughout drop and survey missions, and survey plane No. 2 will follow at a distance of 2000 yards. Upon completion of the preliminary survey run, survey planes will execute two (possibly three) runs for the dropping of water sample collectors and radiac instruments.

d. Upon completion of the drop runs, a survey pattern will be initiated. This pattern will be largely determined by the size of the water area to be covered; the larger the area the more detailed a pattern can be flown. Should the area remain small, the pattern will consist of runs across the SHOT ZONE. Pattern determinations will be made on the basis of information received by program directors. In the event that it becomes necessary for survey planes to delay or suspend operations and maintain an orbit about a reference position, this point will be the initial run-in point (subsequent to H-Hour this will be off port bow of the MT MCKINLEY (AGC-7)).

e. Survey missions on D-Day will be scheduled from H-60 minutes to H+3 hours, and H+4 hours to H+6 hours, or as daylight hours permit. Survey missions subsequent to D-Day will be tentatively planned as a one plane two hour flight in the early morning and a one plane two hour flight in the late afternoon.

4. Air Drops.

a. Survey plane No. 1 will drop five USQ-1 telemeters from an altitude of 500 feet during the first run through the SHOT ZONE. Survey plane No. 2 will drop ten water sample collectors from an altitude of 500 feet during the first run through the SHOT ZONE.

b. During the second run through the SHOT ZONE, survey plane No. 1 will drop ten water sample collectors and survey plane No. 2 will drop five USQ-1 telemeters.

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Operation Plan
CTG 7.3 No. 1-55

Appendix III to Annex H - Radiological Survey, Air Drop and Sample Return Plan

c. Upon completion of the second run, both survey No. 1 and survey No. 2 will have two water sample collectors and five radiac USQ-1 instruments remaining. These may be dropped on a third run either immediately following the second run or when considered necessary by CTG 7.3.

d. It is desired that the first drop be conducted perpendicular to the tow array through the center of the SHOT ZONE and to give a coverage of fifty percent on each side of the ZONE which is estimated to be 1000 feet in diameter. The second drop will be made parallel to the array through the center of the ZONE with the same coverage desired. Runs parallel to the array will maintain a 200 yard separation from the array units until aft of balloons at which time a turn into the SHOT ZONE may be made.

e. Survey plane No. 1 will indicate IFF mode 1, and survey plane No. 2 will indicate IFF mode 2 throughout the survey and drop mission. Radar tracking will be used on these aircraft to obtain detailed flight path/time information which will be utilized for scientific computations.

f. See Tab A - Maneuvering Plan for Drop and Survey Aircraft.

5. Sample Return.

a. AF-2S type aircraft based aboard USS WRIGHT will be utilized to return radioactive samples from the carrier to NAS, North Island. At North Island the samples will then be readied for further shipment and transferred to MATS aircraft for delivery to interested laboratories. The necessity for early sample delivery requires efficient and accurate coordination on the part of aircraft units concerned.

b. Sample return missions will commence as soon as possible on D+1 Day subsequent to recovery and processing of water samples. Estimated requirements indicate that two planes will return to North Island on D+1 Day and two planes will return on D+2 Day. Subsequent return missions may be scheduled if necessary. No scheduled night carrier operations are contemplated, however night landings at NAS, North Island are to be expected.

c. In the event NAS, North Island goes below safe weather minimums for carrier aircraft, sample return aircraft can expect to be sent to Miramar NAS as alternate number one or El Centro NAAS as alternate number two. AF and AD type pilots are to be advised of this possibility

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Operation Plan
CTG 7.3 No. 1-55

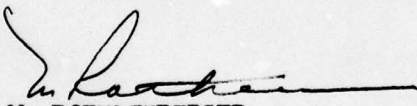
Appendix III to Annex H - Radiological Survey, Air Drop and Sample Return Plan

and be sufficiently prepared for this situation. MATS aircraft awaiting samples for delivery to the interior will be aware of weather complications and will be prepared to effect rendezvous with carrier sample delivery planes at alternate base one or two as specified. CTU 7.3.5 (VP-2) will coordinate this sample transfer rendezvous as necessary.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander

Tab:

A - Manuevering Plan for Drop and Survey Aircraft


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LCDR, U. S. Navy
Flag Secretary

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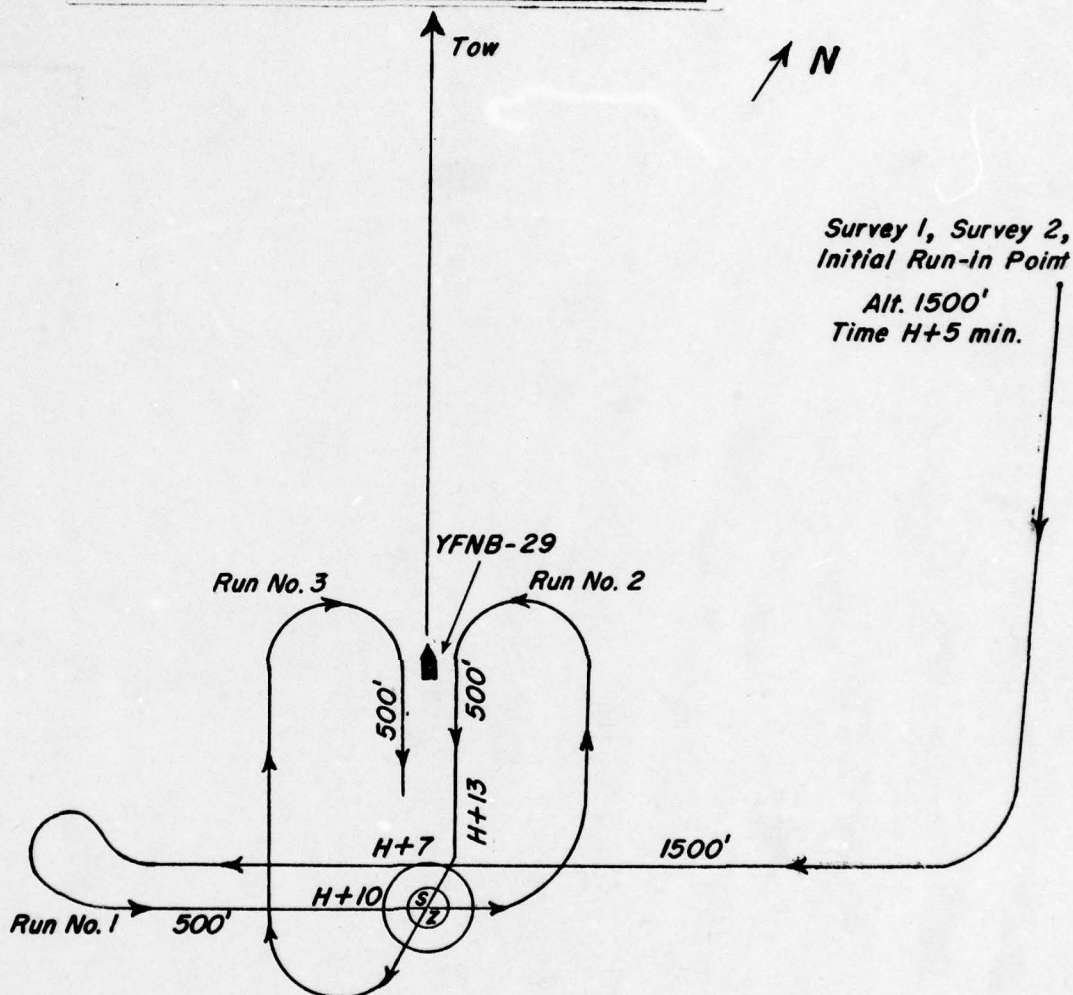
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Operation Plan
ATG 7.3 No. 1-55

Tab A to Appendix III to Annex H

Joint Task Force SEVENTH
Task Group 7.5
Washington 25, D.C.
25 March 1955:1000R

Maneuvering Plan for Drop and Survey Aircraft



1. Upwind pass by Shot Zone at H+7 min. 1500 feet
2. Drop Run No. 1 at H+10 min. 500 feet
3. Drop Run No. 2 at H+13 min. 500 feet
4. Drop Run No. 3 at H+20 min. (If needed immediately after Run No. 2)
5. Survey operations subsequent to Drop Run No. 2 (or Run No. 3) to be determined by radiological situation.

M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

JOHN SYLVESTER

Reear, Daniel
Commander

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Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Appendix IV to Annex H

Helicopter Utilization Plan

1. General.

- a. Seven HRS-3 type helicopters from Marine Helicopter Squadron Three Sixty-Two (HMR-362) are assigned for participation in this operation.
- b. The USS WRIGHT (CVL-49) will base the HMR-362 detachment and provide logistic support throughout the operation.
- c. Helicopter availability will become very critical subsequent to H-Hour and will continue so throughout the D-Day period. All units concerned with helicopter services must be aware of this situation and attempt to sufficiently advise the helicopter scheduling agency of requests and changes so that maximum utilization can be effected.

2. Control.

- a. Air control will be exercised by CTG 7.3 through his Tactical Air Control Detachment (LAZARUS) at all times while aircraft are airborne in the area and conducting assigned missions except at such times when aircraft are engaged in operations with parent vessel (launching, landing, etc.). Helicopters will report in on the TATC Net but will be prepared to operate on helicopter nets 344.2 MCS (primary), and 318.6 MCS (secondary). The secondary frequency will be used when conducting sample pickups from YAG-40.

3. Landing Platforms.

- a. Landing platforms are available on: CURTISS (AV-4), MT MCKINLEY (AGC-7), YAG-39, YAG-40, LSD-22, LSD-19, the 3 YFN B's (29, 13 and 12), and the Zero Barge.

4. Missions.

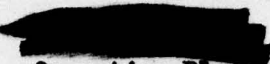
- a. Sample Transfers from YAG-40 to WRIGHT

Commencing immediately subsequent to H-Hour, YAG-40 will initiate a series of transits through the expected contaminated area for the purpose of obtaining radioactive samples. These samples will be prepared for helicopter pickup and transfer to the USS WRIGHT (CVL-49).

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Operation Plan
CTG 7.3 No. 1-55

Appendix IV to Annex H - Helicopter Utilization Plan

All pickups will be from YAG-40 at approximately H+80 minutes, H+158 minutes, and H+296 minutes. It is expected that one helicopter will suffice for all pickups; however, to preclude any delay in the pickup sequence, an airborne standby will be scheduled for immediate use if needed. See Appendix II to Annex E for YAG-40 area traverse diagram.

b. Water Sample Container Recovery

Commencing at H+30 min and continuing until approximately H+3 hours or until completion of mission, two helicopters may (if the situation necessitates) be utilized to recover air dropped sample containers from the water and deliver these containers to the USS WRIGHT.

c. YAG Personnel Evacuation and other Rescue Missions as Necessary

The possibility of YAG-39 and YAG-40 becoming contaminated beyond acceptable limits is a consideration. Should this occur, helicopter evacuation is the preferred method of removing personnel and transferring them to the WRIGHT for decontamination action. Twelve persons will be on board each YAG, and two helicopters will be utilized to conduct evacuation if necessary. The possibility of both YAG's becoming excessively contaminated at the same time is not considered likely; however, should this situation arise, helicopters will be utilized for timely evacuation. Other rescue missions will be acted upon as the situation requires,

d. Visual and Radiological Survey of the Array

Immediately subsequent to H-Hour one helicopter will be available to conduct a visual and radiological survey of the tow array. This survey is to determine the physical and radioactive condition of the array so that closer surface inspection possibilities can be ascertained. Scientific observers and detection equipment will be provided for two helicopters. Additional surveys, not shown on Air Schedules, Appendix I, may be expected.

e. Helicopter Radiological Spectral Analysis

Subsequent to D-Day (D+1 or D+2 DAY) a Spectrum Analysis mission will be conducted. This analysis will be a continuing mission as requested. Scientific observers will be provided.

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Operation Plan
CTG 7.3 No. 1-55

Appendix IV to Annex H - Helicopter Utilization Plan

f. Intra-Task Group Personnel and Material Transfer Missions

(1) During transit to and while in the operating area, numerous intra-task group personnel and material transfers will be required. A boat pool will be operated from the FORT MARION (LSD-22) and will also be available for intra-task group transfers. CTU 7.3.2 will coordinate and assign helicopter transfer missions as needed. Requests for helicopter transportation will be submitted to CTU 7.3.2 prior to 2000 on the day preceding the desired service for scheduling and execution.

(2) One helicopter will operate from the FORT MARION from D-8 to D-5 Day as directed by CTU 7.3.4.

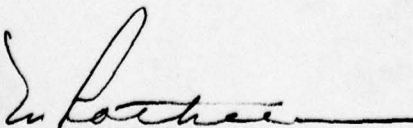
g. Helicopter Aerological Soundings

At about H-2 hours a series of air soundings will be conducted by one HRS as directed by the Hydrographic Unit on board the USS WRIGHT. These missions will be airborne approximately fifteen minutes, and it is estimated that three of these flights will suffice in obtaining the desired data.

h. Helicopter Photographic Missions

Photographic coverage by helicopter is expected to commence at approximately D-7 Day and to continue until the operation is completed. To insure adequate photographic coverage, one helicopter will be available at all times for photographic purposes.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander


M. ROTH LISBERGER
LCDR, U. S. Navy
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H-IV-3

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

Operation Plan
CTG 7.3 No. 1-55

25 March 1955; 1000R

Appendix V to Annex H

Air Photographic Plan

1. General.

a. Photographic coverage will be as directed by CTG 7.3. Technical aspects of coverage and distribution will be as specified in Photographic Plan (Annex I). This appendix pertains only to air control and associated functions as they apply to aircraft while operating and conducting assigned missions in the test area. Three C-54 and one RB-50 type aircraft (USAF) will conduct photographic missions as required in the operating area on D-Day from H-60 minutes to H+30 minutes.

b. Helicopter photographic coverage will be a continuing mission from approximately D-7 Day until completion of the operation. See Appendix IV for helicopter utilization.

2. Control.

a. Photographic aircraft will report to LAZARUS (Tactical Air Control Detachment) on the TATC Net (C-54, 339.4 MCS; RB-50, 137.88 MCS) for control when approaching the test area. Aircraft will be assigned altitudes and patterns or sectors in consideration of assigned missions. Necessary deviations from assigned altitudes and patterns or sectors will be cleared through the air control agency prior to affecting these deviations.

b. Flight clearances from NAS, North Island will be regulated and coordinated through CTU 7.3.5. Flights arriving and departing NAS, North Island will contact this agency for assistance in filing and closing out flight plans.



3. Missions.

Type of photographic coverage will be as assigned by Lookout Mountain Laboratory. C-54 type aircraft will fly a circular pattern to the left around the array at assigned altitudes. Altitude assignment will be dependent upon ceiling conditions existing in the area. C-54 aircraft will maintain an altitude of approximately 200 feet less than the RB-50 photo plane. Tentative altitude assignments will be: RB-50, 2000 feet; C-54, 1800 feet. RB-50 type will conduct three runs on the array. Each run will consist of two passes, one perpendicular (Tri-Met) and one parallel (MOSAIC) over the array. Runs will be initiated so as to insure that

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Operation 
CTG 7.3 No. 1-55

Appendix V to Annex H - Air Photographic Plan

the last run below the overcast is clear of the array at H-10 minutes. Upon completion of run No. 3 the photo plane will initiate a climb through the overcast and be in an on-top position (3-5 miles from SZ, altitude approximately 6000 ft) at H-Hour which will permit on-top coverage of phenomena present above the cloud layer.

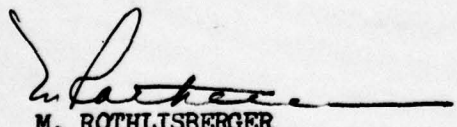
4. Altitude.

It is expected that a complete cloud coverage of the area will exist with estimated bottom at 3000 feet and estimated top at 6000 feet. Photo planes will be located at maximum altitude possible below the overcast. Other aircraft in the area will be conducting missions at altitudes other than maximum possible altitudes. AD-5N type aircraft will initiate missions at higher altitudes (estimated 1500 feet) but will reduce altitudes as the radiological situation allows.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

Tabs:

- A - RB-50 Photo Track Diagram
- B - C-54 Photo Track Diagram


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

H-V-2

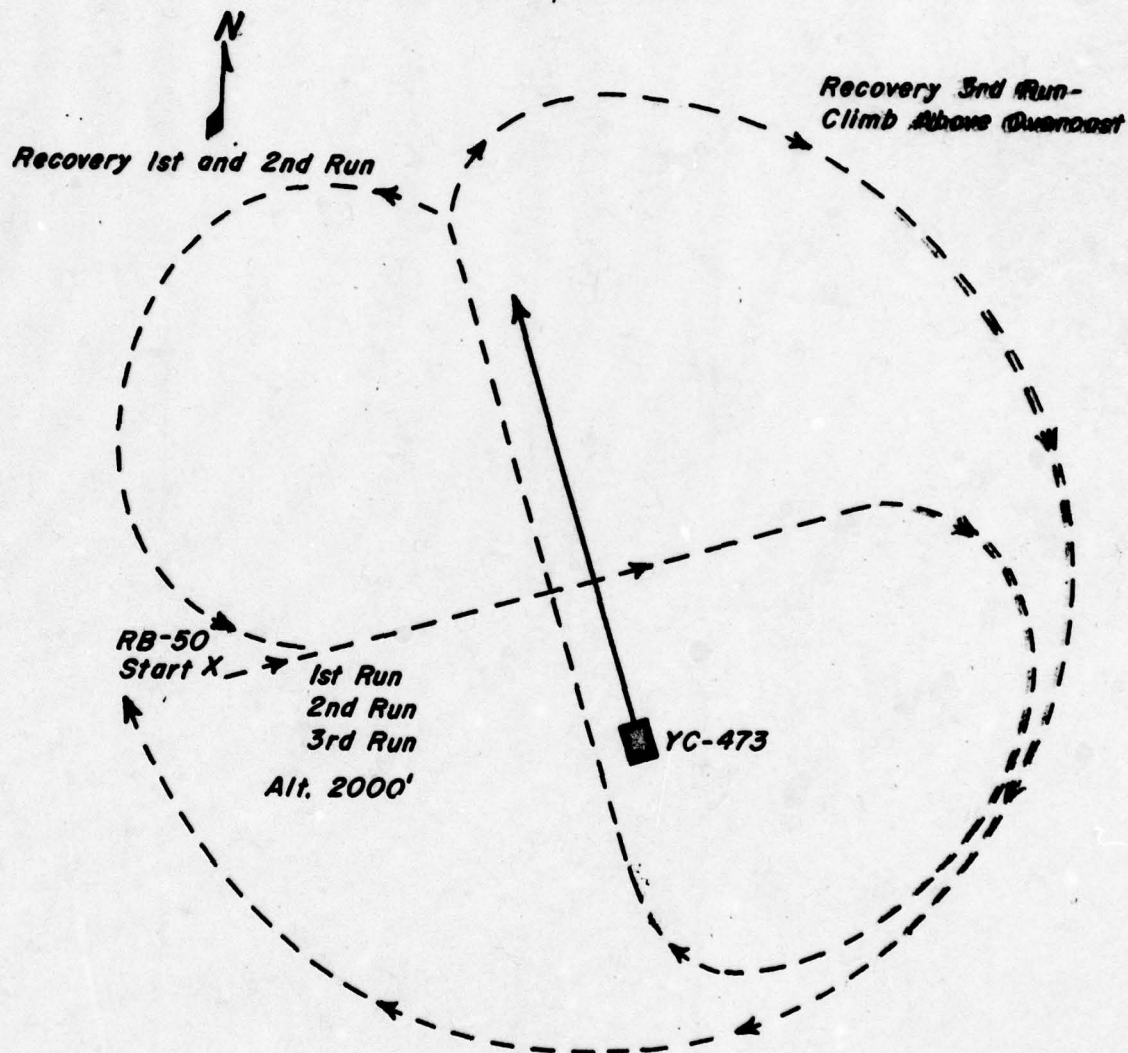

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OPERATION PLAN
CTG 7.3 No. 1-55

JOINT TASK FORCE SEVEN
TASK GROUP 7.3
WASHINGTON 25, D.C.
25 MARCH 1955; 1000R

Tab A to Appendix V to Annex H
RB-50 Photo Track Diagram



[Signature]
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LCDR, U. S. Navy
Flag Secretary

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

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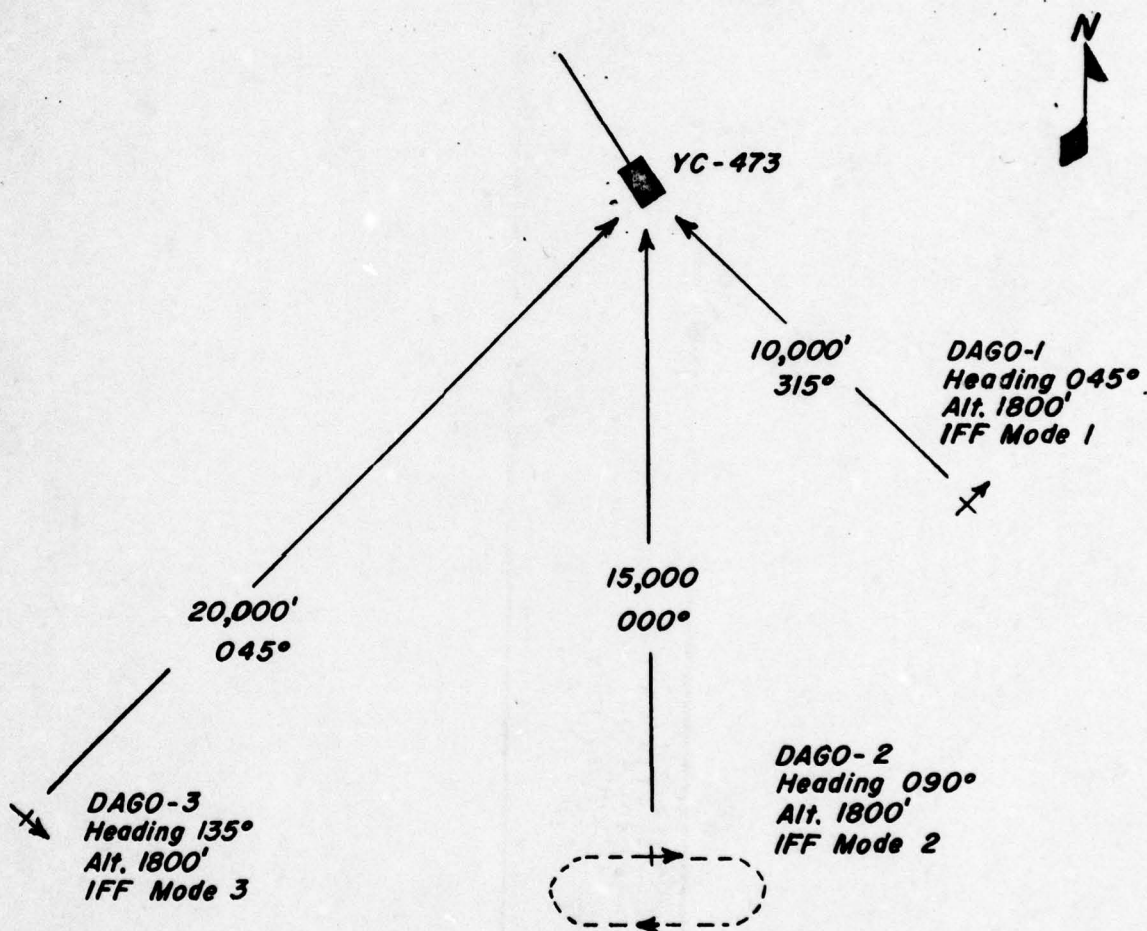
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OPERATION PLAN
CT6 7.3 No. 1-55

JOINT TASK FORCE SEVEN
TASK GROUP 7.3
WASHINGTON 25, D.C.
25 MARCH 1955; 1000R

Tab B to Appendix V to Annex H

C-54 Photo Track Diagram



All aircraft fly RACE-track orbit, circling to the right, timed to arrive at positions assigned on headings indicated at H-HOUR. After H-HOUR all aircraft start turn to left maintaining constant radius except as directed by photo crew chief. Turn will be maintained until mission is completed.

IFF transmissions will be turned off at H+2 minutes.

[Signature]
M. ROTHLSBERGER
LCDR, U. S. Navy
Flag Secretary

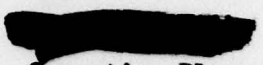
JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander
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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.


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Appendix VI to Annex H

Special Instructions and Safety Plan

1. Special Instructions.

a. Carrier Operations

(1) Aircraft operating from the USS WRIGHT (CVL-49) will be controlled by the WRIGHT during launching and landing operations and preparations thereto. Aircraft departing the carrier vicinity for operations in the activity area and/or return to CONUS will report to LAZARUS on the TATC (Tactical Air Traffic Control) Net for control and/or clearance.

(2) Carrier aircraft commitments will be scheduled and coordinated by Commander Carrier Air Support Unit (CTU 7.3.2).

b. Arrival and Departure Reports

All aircraft arriving CONUS from the operating area will advise Commander Land Based Air Support Unit (CTU 7.3.5) (Located in VP-2 spaces, NAS, North Island). Incoming aircraft not landing at North Island will make a position report to North Island Tower when arriving over land and request that the report be forwarded to VP-2. Aircraft departing CONUS for the operating area will likewise advise CTU 7.3.5 of their departing for the area. CTU 7.3.5 will forward all departure and arrival reports to CTG 7.3 on the Air Patrol Net.

c. Aircraft Clearances

(1) Aircraft conducting flights to and from the test area will file flight plans and ADIZ penetration intentions (if necessary) prior to take off. No aircraft radio transmissions will be made which may possibly jeopardize the security of the test.

(2) All aircraft clearances to and from the operating area will be processed through CTU 7.3.5.


d. Reports

(1) All aviation units will submit to CTG 7.3 as soon after the exercise as is practicable reports containing the following information:

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Appendix VI to Annex H - Special Instructions and Safety Plan

- (a) Unit
- (b) Type plane
- (c) Total operating days
- (d) Total hours flown
- (e) Number of pilots utilized
- (f) Comments and recommendations concerning employment on special missions.

(2) Aviation elements based aboard USS WRIGHT will forward reports via that unit.

(3) Daily aircraft availability reports are not desired except when activities experience difficulty in meeting or maintaining scheduled operations. These reports will contain a brief explanation why the unit is having difficulty in completing scheduled operations.

(4) Contact and amplifying reports will be sent in accordance with Annex N.

2. Safety Instructions.

a. Radiological

Radiological information and instructions are contained in Radiological Safety Plan (Annex G). All personnel are directed to read and become familiar with instructions contained therein.

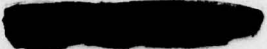
b. Flight

(1) During the operational phase it is mandatory that all flight personnel be thoroughly indoctrinated in their respective assignments.

(2) During the D-Day operations four balloons of fifty feet diameter will be secured to the tow array and will extend to an altitude of 650 feet. Guy lines extending forward contribute to a hazardous situation. One balloon will be secured to the ZERO BARGE and the remaining three will be secured at approximately


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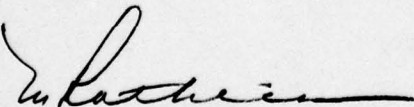
Appendix VI to Annex H - Special Instructions and Safety Plan

2000 foot intervals towards the forward part of the tow. It is expected that the balloon on the ZERO BARGE will be non-existent subsequent to H-Hour. This condition should leave sufficient horizontal air space over the SHOT ZONE to safely execute all close-in air missions. No air operations by fixed wing aircraft will be conducted below 1500 feet across the tow and forward of the last moored balloon. In the event it becomes necessary to dispose of these balloons, survey planes will be prepared to shoot them down with machine gun fire. Firing will be conducted so that the maximum safety factor is obtained.

(3) Altitude separation for type missions will be effected by the Tactical Air Control Detachment. Altitude assignments will be strictly adhered to, and any desired changes will be cleared through the control agency.

(4) A search and rescue plane will be located midway between the operating area and NAS, North Island when carrier aircraft are enroute between the operating area and North Island on D+1 Day and D+2 Day.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander



M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

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Annex I

Photographic Plan

1. General.

a. Purpose

This plan for photographic coverage of all phases of Operation WIGWAM is set forth as a guide to all echelons of this operation.

b. Scope

This plan outlines in broad terms all phases of photography pertaining to Operation WIGWAM.

c. Organization

(1) Mission

The mission of Lookout Mountain Laboratory of Air Photographic and Charting Service is to provide photographic coverage of Operation WIGWAM; such coverage to include the following:

- (a) Task Group Commander's audio-visual report of Operation WIGWAM; this film to be in 16mm color, to be approximately 40 minutes in running time and to be classified no higher than Secret, Restricted Data. This film will be produced for general distribution to the Atomic Energy Commission and the Department of Defense personnel interested in the results of Operation WIGWAM.
- (b) Several short films to provide technical information on target handling and similar operational procedures for the purpose of training and orienting task group personnel prior to test. These films, in 16mm color, will be classified no higher than Secret, Restricted Data.
- (c) One public release type film, unclassified for possible joint release by the Atomic Energy Commission and the Department of Defense, showing all possible material for public information. This film to be in 16mm color and approximately 12½ minutes in length.

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- (d) Report and stock footage coverage: This shall include all film coverage (motion picture or still) required by scientific programs, task unit and staff sections for purposes of inclusion in their respective operational and technical reports and in the film archives, during the operational phase of Operation WIGWAM (San Diego area from 1 April 1955 to conclusion of project approximately 1 June 1955) and any such coverage requested at any time prior to the operational phase.
- (e) Accident and general record incidental film coverage as required by the Task Group and for purposes of documenting accidents and other unplanned events.
- (f) Such timed technical photography, still and motion picture, Black and White and color, surface or aerial as may be required in support of scientific projects.
- (g) Complete cataloging and indexing of all film exposed on Operation WIGWAM, both still and motion picture, will be accomplished.

(2) Responsibility of Commander, Lookout Mountain Laboratory

The Commander, Lookout Mountain Laboratory, is responsible for all photography concerning Operation WIGWAM including:

- (a) Coordination, through the Task Group Operations Officer, of all photographic operations with the various Task Units and Task Elements.
- (b) Formulation of plans for the accomplishment of all official photography required for Operation WIGWAM, and for the execution of these plans.
- (c) Preparation of scripts for all complete productions.
- (d) Procurement of all photographic supplies and equipment required to accomplish the photographic mission of Lookout Mountain Laboratory.
- (e) Procurement, issuance, development and storage of all photographic supplies as requested by other Operation WIGWAM projects during the operational phase.

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- (f) Issuing and accounting for all film in accordance with security and classification restrictions. (Atomic Energy Commission and Department of Defense).
- (g) Assignment of an identification code number (See para 2) to each package of film, marking this code number on the outer container of each film package, and recording the number in a permanently bound Film Accounting Log.
- (h) Establishment of a standard numbering system for all pictures (motion picture and still) to be used by Lookout Mountain Laboratory and other project photographers.
- (i) Establishment of shipping schedules for photographic supplies into and from the operational area.
- (j) Shipment to and from the operational area of unexposed and exposed film.
- (k) Assignment of a Director of Photography (Film Control Officer) to be on duty during the operational phase. The Director of Photography will receive all unexposed film shipped into the operational area, store this film and issue it as needed to authorized photographers.
- (l) Provision for use during the operational phase of 3 special purpose photographic equipment trucks, all necessary cameras and allied equipment except special cameras and equipment provided by certain projects as a part of their scientific effort.
- (m) Provision of personnel required to successfully accomplish the mission assigned to Lookout Mountain Laboratory.
- (n) Storage of exposed film in the operational area until it can be transported to Lookout Mountain Laboratory for processing.
- (o) Receiving of exposed film at Lookout Mountain Laboratory from operating area and accomplishing audit to insure that all film is accounted for.

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(p) Processing of exposed film, deletion and destruction of blank and unusable film, evaluation of film for quality (except for oscilloscope and other special film utilized by certain projects and classed as technical data on film), and in the case of -

1. Motion picture color film

- a. Preparation of one color master on all footage.
- b. Preparation of one color corrected library print on all footage for reviewing and cataloguing purposes.
- c. Preparation of one color corrected cutting print on all footage.
- d. Storage of above prints and original film at Lookout Mountain Laboratory.

2. Motion Picture Black and White Technical Film

- a. Preparation of one fine grain master on all footage.
- b. Preparation of one dupe negative on all footage.
- c. Preparation of one library print on all footage for viewing and cataloguing purposes.
- d. Storage of above fine grain, dupe negative, and library print at Lookout Mountain Laboratory.
- e. Submission of original negative after above items have been made to the requesting project for scientific analysis.

3. Still Black and White Film

- a. Preparation of two glossy prints (printed four on one 8 x 10 page) and maintenance of one copy at Lookout Mountain Laboratory and shipment of one copy to the Division of Photography in the operating area.

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b. Preparation of one glossy print for cataloguing purposes.

4. Still Color Film

a. Preparation of one print for cataloguing purposes.

(q) Cataloguing of all motion picture and still film using the microfilm process.

(r) Storage of all original film and prints referred to in (p) above.

(s) Preparation and distribution of release prints of motion pictures as directed by the Task Group Commander.

(t) Preparation of a still album which will be maintained in the operating area. The pictures will be captioned and will have their current classifications. This album is for use by all Operation WIGWAM personnel (authorized) to facilitate in the selection and ordering of still pictures for inclusion in reports.

(3) Facilities For Use By Outside Groups at Lookout Mountain Laboratory

The Commander, Lookout Mountain Laboratory will make available at Lookout Mountain Laboratory such facilities and personnel as may be required by various operation WIGWAM program personnel to accomplish analysis, etc., in relation to photographic matters.

d. Operation

Photography will include both ground and aerial photography and will utilize still and motion picture equipment. Motion picture photography will be accomplished on both Black and White and color film (16mm and 35mm). Still photography will be accomplished using both Black and White and color film. Color films will be 4 x 5 and 8 x 10 Ektachrome. All still and motion picture film exposed by Lookout Mountain Laboratory will be developed at Lookout Mountain facilities (either in Hollywood or aboard ship). All still and motion picture film exposed during the operational phase will be developed at Lookout Mountain Laboratory facilities except oscillograph and other special films which will be processed by the using agency.

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e. Personnel

(1) All phases of the operation, both in the Zone of the Interior and on the ocean off the coast of California will be covered photographically by crews from Lookout Mountain Laboratory. Photographic crews prior to the operational phase will be based at Lookout Mountain Laboratory and during the operational phase either in San Diego or shipboard. These crews will be completely mobile in order that they may accomplish photography wherever necessary.

(2) Photographic personnel in the San Diego area or afloat will consist of not more than 20 persons at any one time, including operations personnel, script writers, motion picture and still cameramen and electronics and sound technicians.

(3) Photographic personnel to accomplish aerial technical photography will be kept to a minimum consistent with the requirement.

f. Equipment

All necessary photographic equipment required by Lookout Mountain Laboratory will be procured, stored and utilized by Lookout Mountain Laboratory. Special projects requiring modification of motion picture and still equipment will be accomplished by Lookout Mountain Laboratory prior to movement to the test area.

g. Communications

Radio facilities will be provided for communications between the Operations Section of Lookout Mountain Laboratory and the Photographic crews on location. This net will consist of one fixed station in the San Diego area, one fixed station on shipboard, three mobile (vehicular) units, and three portable units operating on a frequency of 49.5 megacycles. This communications equipment will be provided by Lookout Mountain Laboratory. (See Communication Plan, Annex C).

h. Distribution and Control

(1) The exchange of photography will be governed by "agreement between Armed Forces Special Weapons Project and the Atomic Energy Commission regarding Exchange of Photography for Atomic Weapons Tests."

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(2) Distribution of release prints of the Commander's Report and the various training films will be made as directed by the Task Group Commander.

(3) The initial distribution of the microfilm catalogues will be one copy to the Atomic Energy Commission, Sandia Corporation and the Armed Forces Special Weapons Project. The Division of Military Application and the Armed Forces Special Weapons Project will be the coordinating authority for additional prints required by the Atomic Energy Commission and the Department of Defense agencies, respectively, for any stock footage or still prints shown in the catalogues.

(4) Prints of still pictures and motion picture footage required by the various projects for report purposes will be supplied by Lookout Mountain Laboratory as approved by the Task Group Commander.

2. Film Marking and Handling.

a. All raw film will be procured and provided to photographic personnel by Lookout Mountain Laboratory during the operational phase.

b. All film of any type for photography on Operation WIGWAM will be assigned an individual permanent identification code number and a permanent record made of this number at Lookout Mountain Laboratory.

c. The identification code number will consist of the prefix 30-30, designating Operation WIGWAM, followed by a three letter key indicating the size and type of film. The three-letter key will in turn, be followed by a number identifying each individual package of each type of film. In the case of still film, this individual package number will be followed by an exposure number. The three-letter key will be assigned from the following chart:

CODE IDENTIFICATION

<u>FIRST LETTER</u>	<u>SECOND LETTER</u>	<u>THIRD LETTER</u>
A - AERIAL FILM 9- $\frac{1}{2}$ "	A - CLASS A (Reg Pan or Plus X)	A - 56 ft
B - AERIAL FILM 5- $\frac{1}{4}$ "	B - ANSCO COLOR NEGATIVE	B - 75 ft
C - CUT FILM 4 x 5"	C - CLASS C (Low Speed Pan)	C - 100 ft
D - AERIAL FILM 5 x $\frac{1}{2}$ "	D - ANSCO REVERSAL (Daylight)	D - 200 ft
E - EK ROLL #120	E - MAGNETIC RECORDING FILM	E - 390 ft

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CODE IDENTIFICATION (CONT'D)

<u>FIRST LETTER</u>	<u>SECOND LETTER</u>	<u>THIRD LETTER</u>
N - 35mm FILM	F - CLASS F (Sound Recording)	F - 400 ft
P - FILM PACK 4 x 5"	G - FINE GRAIN (Sound Recording)	G - 1000 ft
Q - $\frac{1}{4}$ " TAPE	H - CLASS H (Process Pan)	H - 20 exposures
R - 16mm FILM	I - INFRA RED FILM	I - 25 sheets
V - CUT FILM 8 x 10"	J - ANSCO REVERSAL TUNGSTEN	
X - 11 x 14	K - COMMERCIAL KODACHROME	K - 12 exposures
Y - 10 x 10	L - CLASS L (Hi-speed Pan)	L - 250 sheets
	ACROGRAPHIC SUPER XX	
	M - CLASS M (Reg Kod Daylight)	M - 500 sheets
	N - CLASS N (Extra Hi-speed Pan)	N - 26 ft
	O - EASTMAN COLOR NEGATIVE	O - 50 sheets
	P - EKTACHROME DAYLIGHT TYPE	P - 36 exposures
	PA - SINGLE WT GLOSSY	
	PI - DOUBLE WT PROJECTION MAT	
	PP - ANSCO COLOR PRINTON	
	PU - VARIGAM DUPONT PAPER	
	Q - AERO COLOR KODACOLOR	
	S - KODACOLOR - TYPE A	S - 1200 ft
	T - CLASS 1 (Reg Kod Tungs)	T - 2400 ft
	U - EKTACHROME ARTIFICIAL LIGHT	
	X - EASTMAN - 918	
		W - 20 ft
		Y - 40 ft
		Z - 10 sheets

The number 30-30- which prefaces the three-letter key indicates that the film was utilized on Operation WIGWAM. The first letter indicates the width of the film or the dimensions in the case of cut film or packs. The second letter indicates the type of film and the third letter indicates the length of the roll in feet or exposures. For example, a piece of film marked as "30-30-RKF 175" means:

30-30- It is film used on Operation WIGWAM

R - It is 16mm film
K - It is Commercial Kodachrome
F - It is a roll 400 feet long
175 - It is the 175th 400 foot roll of 16mm Commercial Kodachrome issued for use in Operation WIGWAM

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Film for Fastax or Eastman High-Speed cameras will be identified by adding the letter "F" to the three-letter key selected from the above chart. For example the 30th 100 ft roll of CLASS "L" film issued for use in a Fastax camera would be identified by the symbol 30-30-RLCF 30.

d. This individual identification code number system is the fundamental means of identification of all film. It will identify any particular piece of film as having been utilized on Operation WIGWAM and will also identify all film for security accountability purposes. It will be used in every matter pertaining to any particular piece of film.

e. Before film of any type is issued for use on Operation WIGWAM, the Commander, Lookout Mountain Laboratory will insure that each individual film outer container is plainly marked as outlined in paragraph 2.c., above, to show the identification code number of the film contained. Ordinarily, the manufacturer's seal on the outer container will not be broken before issue, and the identification code number as marked on the outer container by Lookout Mountain Laboratory will be LEGIBLY MARKED with indelible ink pencil on the inner container or magazine by the individual cameraman immediately after he breaks the seal on the outer container. The individual cameraman who breaks the seal on the outer container will also transcribe the identification code number on the film itself. In the case of aerial still film, this will be done by scratching on the emulsion (not on the leader) with a stylus or other sharp instrument. In the case of pack and cut film, it will be done by the laboratory technician immediately after the film is processed. In the case of motion picture film (with the exception of film for Fastax cameras) it will be done by using a slate. In the case of Fastax film, it will be done by punching the identifying serial number on the head of the film roll prior to exposure. The responsibility for accomplishing the marking is fixed on the individual who breaks the outer container seal and exposes the film.

f. Marking of Containers of Exposed Film

Immediately after exposure all exposed film will be returned to the original can or container, the container properly sealed with tape and marked "EXPOSED" with an indelible ink pencil. The camera crew chief will make certain that each can is properly and legibly marked with correct identifying serial number.

g. Still Film Marking

All still film immediately after being developed and before it is printed will be marked in accordance with the identification code set

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forth in paragraph 2.c., with the following exception: The identification code will be followed by the letter B or A to indicate whether film was exposed Before or After detonation. This number will appear along the edge of the negative, will identify the individual exposures and will be placed so that it can appear on all prints.

h. Caption Sheets

Caption sheets will be used to describe each scene recorded by each motion picture camera, aerial or ground, by each aerial still camera and to describe each individual exposure made by each ground still camera. Caption sheets will be legibly accomplished in quadruplicate, and will be completed immediately after the exposure is made. The original and two copies of each caption sheet pertaining to documentary photography will be sent with the exposed film to Lookout Mountain Laboratory, and the remaining copy retained by the Camera Crew Chief. Lookout Mountain Laboratory will, after 1 April 1955, forward one copy of all caption sheets to the Chief, Armed Forces Special Weapons Project.

i. Security Handling

Unexposed film will be marked for accountability. All exposed film will be handled as **SECRET, RESTRICTED DATA**, until reviewed by and classified by Task Group Classification Officer.

j. Film Exposed by Units Other Than Lookout Mountain Laboratory

All film exposed by project photographs other than those employed by Lookout Mountain Laboratory prior to the operational phase which should be a matter of Operation WIGWAM record will be handled in the following manner:

- (1) Marked with an identification code consisting of the prefix "30-30" designating Operation WIGWAM followed by the project number of the project submitting the film, followed, in the case of motion picture film by the three-letter key set forth in paragraph 2.c., and the number of the individual package or in the case of still film by numbers in sequence for the particular individual negative. For example, the 50th still negative exposed and submitted by Project 2.6 to become a part of Operation WIGWAM record photography would be marked "30-30-2.6-50".


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(2) Negative or original film submitted with caption sheet to Lookout Mountain Laboratory for storage and inclusion in the final catalogue. (Caption sheets are obtainable from Lookout Mountain Laboratory upon request.)

(3) Film exposed prior to the operational phase will be classified by the project accomplishing the photography.

3. Security.

a. Definitions

(1) Official photography is defined as that photography ordered or authorized by the Task Group Commander.

(2) Official photographic equipment and supplies are those supplies and equipment authorized by the Task Group Commander, to be in the possession of and used by official photographers and other individuals as specifically authorized by the Task Group Commander.

(3) Official photographers are those persons so designated by the Task Group Commander and identified by an official photographer badge.

b. Supply and Issue of Film

The Commander, Lookout Mountain Laboratory, will be responsible for supply and issue of all film during the operational phase to photographic crews. Unexposed film will be delivered to the Director of Photography, who will issue it as needed to individual cameramen. All transactions or issues of film will be recorded by the Director of Photography in an appropriate permanent record. As soon as possible after exposure, cameramen will turn in all exposed film and caption sheets to the Director of Photography, who will place the film in secure storage until it can be returned to Lookout Mountain Laboratory for processing. Courier receipts will be used in each case when film is received or dispatched. Completed caption sheets will be stored in a locked safe at all times when they are not in use.

c. Treatment of Photographic Supplies During the Operational Phase

(1) Classification

(a) Unexposed film - accountable.

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- (b) Exposed film - Secret, Restricted Data until classified by the classification officer.
- (c) All sensitized paper unexposed - accountable.
- (d) Exposed sensitized paper - with classification of picture printed on it.
- (e) Camera equipment when unloaded - accountable.
- (f) Camera equipment when loaded - Secret, Restricted Data.
- (g) Completed caption sheets - with classification of film they describe.

(2) Reports of Loss, Theft, or Destruction of Photographic Materials

The loss, theft, or inadvertent destruction of any photographic paper, film, negative, print, or enlargement, or the fact that any such material cannot be accounted for, will be reported immediately, with all pertinent details and names of persons knowing circumstances, to the Security Section, Operation WIGWAM, as soon as the custodian has knowledge of such fact.

d. Formal Classification of Developed Film and Prints

(1) Responsibility for Classifying

The responsibility for classification of photography rests with the Task Group Commander, who will make available a classification office to Lookout Mountain Laboratory for this purpose. Actual classification of the film and still prints will be accomplished on the premises of Lookout Mountain Laboratory and the Task Group Commander will place the classification officer on temporary duty at Lookout Mountain Laboratory for such period of time as is necessary to accomplish this function. After proper classification has been determined, all film documents, and material will be clearly marked to indicate appropriate classification in accordance with existing Department of Defense and Atomic Energy Commission instructions.

(2) In addition to the final classification of motion picture and still films as described above, a current still album will be maintained in the operational area. Each individual picture in this album will be classified (by the Task Group Classification Officer)

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and so marked as it is inserted in the album.

e. Processing

(1) Zone of Interior

(a) All processing of documentary photography in the continental United States will be accomplished at Lookout Mountain Laboratory by "Q" cleared personnel and will be the responsibility of the Commander, Lookout Mountain Laboratory.

(b) Upon being received at Lookout Mountain Laboratory film will be developed and printed as outlined in paragraph 1.c.(2)(p) above. Destruction certificates will be made covering all film destroyed. Film quality reports will be prepared and sent to the Director of Photography in the operating area.

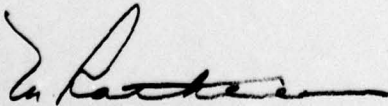
(2) Test Area

(a) Lookout Mountain Laboratory will operate a still processing facility afloat if possible (to be determined at a later date).

(b) If processing is attempted afloat, it will probably be limited to Black and White development and printing.

(3) All processed film, including originals and duplicates for reproduction, will be maintained in film vaults available at Lookout Mountain Laboratory.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Joint Task Force SEVEN
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Washington 25, D. C.

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Annex J

Salvage Plan

1. General.

a. In order to analyze target damage as a result of the WIGWAM detonation, it is imperative that the three targets (SQUAWS) be returned to port upon completion of the operation.

b. After the shot, the SQUAW nearest to surface zero is expected to be damaged so as to require a full-scale salvage operation. In addition, the center SQUAW may sustain sufficient damage so that a complete salvage operation is required, or, if the target can be surfaced with its normal air supply, it may be necessary only to make emergency repairs at the test site before returning to port.

2. Tasks.

The Commander Surface Support Unit is assigned responsibility for SQUAW salvage operations. All units of TU 7.3.4 are available for this task, and such additional support as is required may be provided upon request to CTG 7.3. In addition, the Commander Long Beach Naval Shipyard has indicated that the ex-German crane of that activity might be made available to assist in the salvage operation providing weather and sea conditions permit and sufficient advance notice is provided. During salvage operations certain Task Group 7.3 staff officers will be made available to CTU 7.3.4 in an advisory capacity and to provide technical direction.

3. Concept of Operations.

a. Upon detonation of the weapon, and when the radiological condition permits, the array will be disassembled. If any SQUAW is not able to be surfaced by means of its normal air supply, it will be towed submerged to the Long Beach - Catalina Island area, where it will be grounded and salvage operations commenced.

b. In order to provide a capability for early damage assessment and to assist the Commander Surface Support Unit in planning for the salvage operation, Project 3.5 will operate underwater television equipment from the CHANTICLEER as directed by CTU 7.3.4. This ship will be brought alongside the pontoons and maneuvered so that the TV camera may be lowered and the SQUAW and supporting chains scanned.

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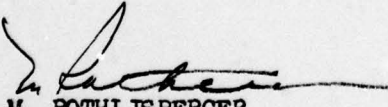
All SQUAWS will be examined by underwater television before any attempt is made to bring them to the surface. The inboard target will be inspected first, followed by the center and then the outermost SQUAW. Upon completion of this examination, and when directed by CTU 7.3.4, an attempt will be made to raise the targets to the surface.

c. Once the SQUAWS have been surfaced and the suspension chains draped, they will be towed, together with their YFNB's and salvage pontoons, to the Long Beach Naval Shipyard for a more accurate assessment of damage by Program III. CTU 7.3.4 is to be prepared to separate the SQUAWS from their pontoons and chains for surface tow, if directed. In this event the SQUAWS will be towed to Long Beach as expeditiously as possible, with the pontoons towed separately when the situation permits.

d. CTU 7.3.4 insure that sufficient material and qualified personnel are on board ships designated for salvage operations. Request for additional personnel and material to assist in the operation may be submitted to CTG 7.3, if required.

4. Reports.

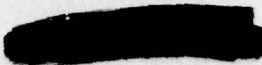
Keep CTG 7.3, Commander Long Beach Naval Shipyard, and the Commandant ELEVENTH Naval District advised of the status of salvage operations.


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander

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Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Annex K

Aerological Plan

1. Organization and Missions of Weather Elements of TG 7.3.

a. Weather Central

(1) The Task Group Weather Central will be located at the Fleet Weather Central, Naval Air Station, San Diego, until such time as Commander Task Group 7.3 transfers to the MT MCKINLEY. At that time a Task Group Forecasting Team will be established on board the AGC. The major forecasting and analysis unit will remain ashore at San Diego and will provide necessary weather service from that location for the forecasting team during the afloat period.

(2) The Task Group Weather Central is responsible for the collection, analysis and transmission of basic weather information for the Task Group Forecasting Team. The Task Group Forecasting Team is responsible for issuance of necessary forecasts to the task group.

b. Hydrographic Survey Element (TE 7.3.5.4)

(1) The Hydrographic Survey Element will consist of three P4Y-2 type aircraft equipped with wave recording devices.

(2) The Hydrographic Survey Element will be under the Weather Central for technical control. The Weather Central will assign flight tracks, coordinate communications and handle briefings and debriefings for this element. FASRON 110 will furnish logistical and administrative support as required.

(3) The mission of the Hydrographic Survey Element will be to conduct weather and hydrographic reconnaissance as directed by the Weather Central.


2. Weather Services Required of TG 7.3 Weather Units.

a. Weather Central

(1) Collect, plot, analyze and transmit weather information as required by the forecasting team.


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Annex K - Aerological Plan

- (2) Coordinate weather and oceanic reconnaissance.
- (3) Establish full scale operations on or before 1 April 1955.

b. Forecasting Team

- (1) Advise the Task Group Commander on weather during the afloat phase.
- (2) Issue forecasts, advisories, and warnings to the task group.

c. Hydrographic Survey Element

- (1) Be prepared to fly one mission daily from 15 April 1955 to D-7 and two missions daily during the afloat phase.

d. U.S.S. CURTISS (AV-4)

Take all upper air observations for the task group. Schedules will be furnished at a later date.

e. Other Weather Units Afloat

Comply with existing weather directives when operating outside a 50 mile radius of the task group flagship.

f. Carrier Air Support Unit, TU 7.3.2

Take helicopter low-level soundings as required at H-2 hours.

g. Air Patrol Element, TE 7.3.5.1

Take weather observations as outlined in the Air Plan (Annex H).

3. Weather Communications (See Annex C for specific details)

a. Weather Communications Available to this Force

- (1) CW - Intercept of FWC, San Francisco broadcast.
- (2) RTT - Intercept of Pacific broadcasts and of special broadcast from Joint Weather Central to AGC.

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OPERATION WIGWAM.(U)

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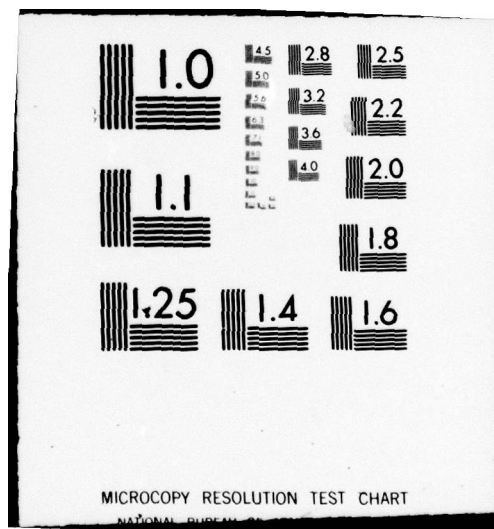
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Operation Plan
CTG 7.3 No. 1-55

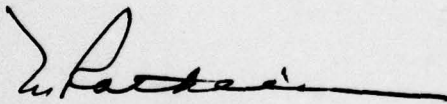
Annex K - Aerological Plan

- (3) VOICE - Motorola circuits as required.
- (4) Radio Facsimile - Special broadcast from Joint Weather Central to AGC.

b. General

Time frequencies and contents of Pacific Ocean Area Broadcasts are available in current Navy and Air Force publications.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Operation Plan
CTG 7.3 No. 1-55

Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Annex I

Search and Rescue Plan

Reference: (a) Search & Rescue - Joint Standing Operation Procedure,
Pacific
(b) NWP-37

1. Responsibilities.

a. Responsibilities of commanders for search and rescue (SAR) operations within their respective commands are set forth in reference (a). Specifically, as it relates to the area of primary concern to Commander Task Group 7.3, responsibility for search and rescue is assigned Commander Western Sea Frontier under Commander in Chief, U. S. Pacific Fleet.

b. Reference (a) further provides that:

"For aircraft, operating on unit combat or training missions, the primary responsibility for insuring that SAR facilities are adequate rests with the commander exercising operational control of the aircraft regardless of the area of operation. This responsibility may be delegated to subordinate commanders. Commanders holding SAR responsibility shall insure that their operating forces are familiar with the rescue facilities and procedures of the SAR area in which they are operating and shall request assistance as necessary from the appropriate area SAR commander. Once the area SAR commander has been requested to provide assistance, he assumes SAR control."

The paragraph quoted is applicable to Operation WIGWAM and places certain responsibilities on CTG 7.3.

2. Tasks for Subordinate Units:

a. The Commander Task Unit 7.3.2 shall:

- (1) Have primary search and rescue responsibility for all TG 7.3 air and surface units during Operation WIGWAM.
- (2) Take necessary measures to insure familiarity and compliance with the provisions of references (a) and (b).

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Operation Plan
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Annex L - Search and Rescue Plan

(3) Conduct the necessary liaison with the area SAR commander and appropriate SAR coordination center to insure necessary exchange of information and effective integration of TG 7.3 forces into area SAR plans.

(4) Forward requests to CTG 7.3 for SAR coverage required in addition to own capabilities. Such requests will be made sufficiently in advance of proposed operations to allow for the positioning of the additional forces required.

b. The Commander Task Unit 7.3.3 shall:

(1) Require all units to familiarize themselves and comply with the provisions of references (a) and (b).

(2) Conduct training and have available suitable SAR equipment in order to provide assistance to CTU 7.3.2 and the area SAR commander as necessary.

3. Independent Action:

DESIGNATED PRIMARY AND SECONDARY RESPONSIBILITIES IN NO WAY AFFECT THE RESPONSIBILITY OF ANY COMMANDER TO ENGAGE IN RESCUE OPERATIONS UPON HIS OWN INITIATIVE AS THE CIRCUMSTANCES DICTATE. INDEPENDENT ACTION MUST BE IMMEDIATELY REPORTED TO, AND COORDINATED WITH, THE APPROPRIATE SAR COMMANDER.

4. SAR Incident.

A SAR incident shall be considered imminent or existing and the appropriate SAR Coordination Center notified when one or more of the following conditions exist:

a. Aircraft

(1) When information is received that the position of an aircraft is so questionable as to give rise to doubt as to its safety.

(2) When information is received that an aircraft has definitely made a forced landing or is about to do so.

(3) When information is received from an aircraft or its operating agency which indicates that the operating efficiency of an aircraft has been impaired to the extent that a forced landing may be necessary.

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Annex L - Search and Rescue Plan

(4) Where an aircraft is overdue or unreported, as determined by the circumstances obtaining in each particular case, and when possible with the confirmation of the operating agency. Normally, an aircraft will be considered overdue when:

(a) Its position report is 30 minutes overdue in the case of piston powered aircraft and 15 minutes overdue in the case of jet powered aircraft.

(b) It fails to arrive within a maximum of 30 minutes of its estimated time of arrival (ETA) in the case of piston powered aircraft, or within 15 minutes in the case of jet powered aircraft, and communications with the aircraft cannot be established.

(5) When information is received that personnel have abandoned an aircraft during flight.

b. Surface Craft

(1) When it becomes apparent that a vessel at sea is in distress or a request for assistance has been received.

(2) When an operational commander reports a vessel as being overdue at its destination, or that a required position report is considered overdue.

c. Submarines

(1) When a submarine fails to surface promptly following a known accident or an accident report from any source.

(2) When all communications and contact with a submarine operating submerged have been lost for a period of one hour, except when such lack of contact can be considered to result from the nature of the operation in progress.

(3) When there is any reason to suspect that a submarine has suffered a casualty and requires assistance.

d. Others

When it becomes apparent that personnel are in distress or a request for assistance is received.

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Operation Plan
CTG 7.3 No. 1-55

Annex 1 - Search and Rescue Plan

5. Action by SAR Commander.

The SAR Commander, through his SAR Coordination Center, upon receipt of information that a SAR incident exists, shall take the following steps:

- a. Insure the dispatch of necessary rescue unit(s) to search for distressed personnel.
- b. Coordinate all participating rescue units in order to insure complete coverage of the area within which the distressed personnel are known or expected to be.
- c. Arrange with other commands for such additional rescue units as may be required for a particular SAR incident.
- d. Keep all operating agencies, concerned with distressed personnel, informed of the progress of the particular SAR incident.
- e. If geographical limitations prohibit effective coordination from the SAR Coordination Center, the SAR Commander may designate an advanced area controller to coordinate the activities of all participating rescue units.

6. On-Scene Procedure.

- a. The element sighting survivors shall assume "on-scene" control until rescue is effected or the element is relieved by proper authority.
- b. When survivors are sighted by elements which are incapable of completing rescue, these elements will assume responsibility for alerting SAR elements and if feasible remain "on-scene" until the arrival of air or surface SAR elements which are capable of completing the rescue.
- c. The SAR Coordination Center shall designate who is the "on-scene" controller and additional air or surface controllers as necessary.

7. Reports.

Results of all incidents investigated by rescue units will be reported promptly to the SAR Coordination Center controlling the operation.

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Operation Plan
CTG 7.3 No. 1-55

Annex L - Search and Rescue Plan

8. SAR Communications.

a. Control and coordinating frequencies and call signs in accordance with Communications and Electronics Plan (Annex C). SAR agencies shall guard the assigned distress frequencies at all times. Any aircraft, surface craft, submarine, or ground unit assigned to and engaged in SAR operations shall guard these frequencies as far as their radio facilities will permit and this guard shall be continued until directed otherwise. If feasible, distress messages and reports of survivor contacts shall be made on the prescribed frequencies. However, to insure delivery of messages they may also be made on any frequency on which communications can be established. All stations shall be alert to intercept distress messages and relay them to the appropriate SAR Coordination Center.

b. An aircraft, sighting a friendly surface vessel, after self-identification, may indicate the location of a distressed unit or survivors as follows: The aircraft will circle the vessel at least once; fly across the bow of the vessel at low altitude, opening and closing the throttle or changing propeller pitch, when possible, and will then head in the direction of the distress scene. This procedure will be repeated until the vessel acknowledges by following. The aircraft will use Aldis lamp, radio, or message drop to explain the situation if possible. The surface craft should follow the aircraft or indicate that it is unable to comply by hoisting the international flag "NEGAT", or by visual or radio means.

c. Distress Radio Calls

(1) In order to clear the circuit for distress communications, the international distress calls "MAYDAY" (Voice) and "SOS" (CW), repeated three times, shall be used. These calls are authorized for use in case of distress only.

(2) The transmission of a distress message on any SAR frequency is considered as being addressed to "any or all" SAR units and will be acknowledged by any SAR unit receiving message.

(3) To establish communication with unknown SAR units, the appropriate "any or all" call or "scene of action" call, as listed in the currently effective JANAPS, shall be employed. The SAR unit acknowledging will use its individual call. Similarly a SAR unit may establish communication with an unknown aircraft, surface unit, or sub-surface unit by using the appropriate "any or all" call.

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Annex L - Search and Rescue Plan

d. SAR Procedure for Aircraft in Distress

(1) Aircraft in difficulty should attempt to establish contact with the operating agency, the nearest air traffic control facility, air defense, or rescue unit as soon as possible whether bail out, crash landing, or ditching is imminent.

(2) The first transmission by an aircraft in distress should be on the assigned air-ground frequency or the frequency of last communication contact. If the aircraft is unable to establish communications on that frequency, one or more of the frequencies in Annex C should be used. The distress call and message should be repeated at intervals on the various frequencies utilized until an answer is received.

(3) When an aircraft is threatened by serious and imminent danger and requires immediate assistance, the pilot should:

(a) Turn on emergency IFF.

(b) Transmit the distress call.

(c) On completion of the above distress call, the following information should be transmitted:

1. Best estimated position and time thereof.
2. Course and speed.
3. Altitude of aircraft.
4. Nature of distress.
5. Intention of aircraft commander as to proceeding, ditching, crash landing, or bailing out.

(4) Immediately prior to ditching, crash landing, or bailing out, the pilot or radio operator should tie down the radiotelegraph key. If the aircraft is equipped with VHF/UHF (voice), the pilot should use any means available to obtain continuous transmission.

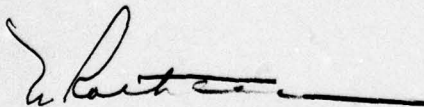
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Annex L - Search and Rescue Plan


- (5) An aircraft commander becoming aware that another aircraft is in distress may direct transmission of a distress message when:
- (a) Aircraft in distress is unable to do so.
 - (b) Further assistance is believed necessary.
- (6) If the aircraft is no longer in distress, a message cancelling the state of distress shall be transmitted on the same frequency or frequencies used for transmitting the distress calls and message.
- (7) Report positions in true bearings and distances in nautical miles from Point ZEBRA (see Annex N, Contact Identification and Development Plan). When exact positions are not known any information which will establish a line of position should be transmitted.
- (8) Requests for bearings, positions, or courses may be made through the normal air-ground channels.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander



M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary


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Operation Plan
CTG 7.3 No. 1-55

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

25 March 1955; 1000R

Annex M

Surface Search Plan

1. General Situation.

Soviet submarines have the capability of reconnoitering this operation and obtaining information detrimental to the security of the United States. Unfriendly surface craft, in the guise of uninformed fishing or merchant vessels, may likewise penetrate the area of operations. In addition to these possible subversive elements, U.S. or allied fishing or merchant vessels may approach the area unaware of the nature of the operation.

2. Commander Task Unit 7.3.3 is assigned the task of conducting a surface and anti-submarine patrol in order to detect the entry into the Submarine and Surface Warning Area of submarines and unauthorized vessels.

a. Commencing on D-5 and continuing through D+5, or as directed by Commander Task Group 7.3, Commander Task Unit 7.3.3 shall maintain patrol surrounding the area within 30 miles of Point ZEBRA as follows:

D-5 to D - 6 ships
D Day - 5 ships
D+1 to D+5 - 6 ships

b. During replenishment periods authority is granted to reduce the number of ships on patrol at the discretion of the task unit commander. Provision for an overlap of patrols shall be made at this time.

c. Utilize radar and sonar equipment in accordance with type doctrine.

d. Coordinate operations with aircraft of TU 7.3.5 in exchange of information pertaining to contacts. (See Annex H, Air Plan).

e. Provide search and rescue services as required by Commander Task Unit 7.3.2. (See Annex L, Search and Rescue Plan).

f. In the event a definite contact is made with an unauthorized vessel, every effort will be made to identify it, communicate with it and request it to clear the area. Detailed procedure to be used in the various situations which may be encountered is outlined in Contact Identification and Development Plan (Annex N).

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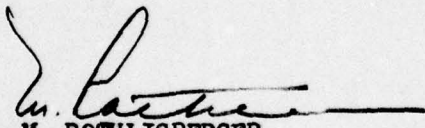
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Operation Plan
CTG 7.3 No. 1-55

Annex M - Surface Search Plan

- g. Positions of contacts shall be reported in true bearings and distances from Point ZEBRA as specified in Annex N.
3. Search units will be kept advised of the presence of any known friendly shipping; no friendly submarines will be in the operating area.
4. Exercise maximum fuel economy consistent with maintaining adequate patrol of assigned area.
5. Only in self-defense will any offensive action be taken against surface vessels without prior approval of Commander Task Group 7.3. Action against submarines is contained in CINCPACFLT INSTRUCTION 03360.2B dated 14 April 1953 and cognizant commanders shall be thoroughly familiar with this instruction.
6. Report current sonar message as of noon daily in conjunction with routine fuel report.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Washington 25, D. C.

Operation Plan
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Annex N

Contact Identification and Development Plan

1. Tasks.

- a. Provide warning of entry of all unauthorized vessels and aircraft into the area of operations.
- b. Provide early warning of any hostile act by enemy vessels or aircraft.

2. Definitions of Areas.

a. Area of Operations

The area of operations is the area within 100 nautical miles radius of Point ZEBRA.

b. Point YOKE

Point YOKE is located at 30°32'N, 120°20'W, and is the point of rendezvous for designated units.

c. Point ZEBRA

Point ZEBRA is that point at which the array will be located in the operating area. The array will be towed into the wind, and Point ZEBRA is expected to move in a general northwesterly direction at a speed of about 1 knot. CTU 7.3.3 and CTU 7.3.5 will be advised daily as to the PIM of Point ZEBRA. At about D-4 the Scripps Institution of Oceanography will advise CTG 7.3 as to the best location for Point ZEBRA. For planning purposes ZEBRA will be initially located at 28°00'N, 124°00'W.

d. Aircraft Warning Area

The aircraft warning area is that area within 75 nautical miles radius of Point ZEBRA.

e. Submarine and Surface Vessel Warning Area

The submarine and surface vessel warning area is that area within 30 nautical miles radius of Point ZEBRA.

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Annex N - Contact Identification and Development Plan

f. Danger Area

The danger area is that area within 5 nautical miles radius of Point ZEBRA.

3. For purposes of this annex, a submarine contact shall include the visual sighting of a submarine which subsequently submerges, visual or radar sighting of a periscope or snorkel, disappearing radar contacts, sonobuoy contacts, and sonar contacts. A submarine which remains on the surface shall be treated as a surface vessel, bearing in mind its offensive capabilities. A surface contact shall include all other types of contacts concerning unauthorized vessels.

4. Implementation.

a. Unauthorized surface vessel approaches the submarine and surface vessel warning area:

(1) Contact by a destroyer of TU 7.3.3:

(a) Make contact report as outlined in paragraph 6.

(b) By means of flashing light, flag hoist, hailing, black board, radio (500 kc) and hand-keyed sonar and using International Code Signals (HO 87 and HO 88) attempt to communicate the following message to the unauthorized vessel:

"YOU ARE IN A DANGEROUS AREA. REQUEST YOU PROCEED
IMMEDIATELY IN A _____ DIRECTION"

(c) Identify the vessel. Pass close aboard; note the vessel's name, home port, house flag, nationality and/or any other significant details. Take photographs (black and white preferred) if possible.

(d) If communication is established with the unauthorized vessel, and she responds to the above message, track it until clear of the submarine and surface vessel warning area.

(e) If communication is not established track the vessel until clear of the area or until advised by CTG 7.3.


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Annex N - Contact Identification and Development Plan

(f) Submit amplifying report in accordance with paragraph 6.

(2) Contact by an aircraft of TU 7.3.5:

(a) Make contact report as outlined in paragraph 6.

(b) By means of aldis lamp, radio (500 kc), and/or message drop, and using International Code Signals (HO 87 and HO88) attempt to communicate the following message to the unauthorized vessel:

"YOU ARE IN A DANGEROUS AREA. REQUEST YOU PROCEED IMMEDIATELY IN A _____ DIRECTION"

(c) Identify the vessel. Pass close aboard; note vessel's name, home port, house flag, nationality and/or any other significant details. Take photographs (black and white preferred) if possible.

(d) If communication is established with the unauthorized vessel and she responds to the above message, track it with radar until clear of the submarine and surface vessel warning area. This tracking shall be done while continuing the established search pattern.

(e) If communication is not established, track the vessel until clear of the warning area or until advised by CTG 7.3.

(f) Submit amplifying report in accordance with paragraph 6 of this annex.

b. Unauthorized aircraft on course which takes it through aircraft warning area:

(1) Contact by a destroyer of TU 7.3.3:

(a) Make contact report as outlined in paragraph 6.

(b) Attempt to communicate with the plane by radio (243 MCS) or (121.5 MCS) and send the following message:

"YOU ARE IN A DANGEROUS AREA. REQUEST YOU PROCEED IMMEDIATELY IN A _____ DIRECTION"

(c) Identify plane by any means available. Take photographs if possible (black and white preferred).

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Annex N - Contact Identification and Development Plan

- (d) Track aircraft and make amplifying report in accordance with paragraph 6 of this annex.
- (2) Contact by an aircraft of TU 7.3.5:
 - (a) Make contact report as outlined in paragraph 6.
 - (b) Attempt to communicate with the aircraft by radio (243 MCS, 121.5 MCS or 8364 KCS) and send the following message:

"YOU ARE IN A DANGEROUS AREA. REQUEST YOU PROCEED
IMMEDIATELY IN A _____ DIRECTION"
 - (c) If communication with the aircraft is established and if the aircraft responds to the above message, track it until contact is lost on radar, while continuing on assigned search mission.
 - (d) Identify by any means available. Take photographs if possible (black and white preferred).
 - (e) Submit amplifying report in accordance with paragraph 6 of this annex.

c. Submarine contacts

Action to be taken against submarine contacts is prescribed in CINCPACFLT INSTRUCTION 03360.2B dated 14 April 1953. Cognizant commanders shall be thoroughly familiar with this instruction.

5. CTE 7.3.1.6 has been requested to provide photographic equipment for ships of TU 7.3.3. Commanding officers of destroyers and pilots of patrol aircraft will be designated official photographers for the purposes described above. All exposed film will be accounted for in accordance with the Photographic Plan (Annex I) and will be turned over to CTE 7.3.1.6 at the first availability for processing.

6. In determining specific action to be taken in accordance with the foregoing, commanders must be guided by good judgment and consideration of the capabilities and limitations of their vessels or craft.


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Operation Plan
CTG 7.3 No. 1-55

Annex N - Contact Identification and Development Plan

7. Reports.

Contact and amplifying reports shall be made as specified herein. Operational Brevity Codes (ACP 165) may be used by reporting units as desired.

a. Unauthorized surface vessel approaches the submarine and surface vessel warning area:

(1) Contact report:

FROM: (CALL SIGN)
TO: CTG 7.3, CTU 7.3.2, CTU 7.3.3, CTU 7.3.5.
PRECEDENCE: OPERATIONAL IMMEDIATE (O)
CLASSIFICATION: PLAIN
SAMPLE MESSAGE: "SKUNK (BEARING) ZEBRA (DISTANCE)(AUTHENTICATION)

(2) Amplifying reports

FROM: (CALL SIGN)
TO: CTG 7.3, CTU 7.3.2, CTU 7.3.3, CTU 7.3.5
PRECEDENCE: PRIORITY (P)
CLASSIFICATION: MERCHANT SHIPS: PLAIN; NAVAL SHIPS: CONFIDENTIAL
MESSAGE: "THIS IS MY (FIRST, SECOND, OR AS APPLICABLE) AMPLIFYING REPORT X THE BALANCE OF MESSAGE SHOULD ANSWER THE FOLLOWING QUESTIONS:
HOW: METHOD BY WHICH CONTACT WAS MADE
WHO: IDENTIFICATION IF POSSIBLE
WHITHER: COURSE AND SPEED OF CONTACT
WHAT: ACTION TAKEN BY CONTACT AND DESTROYER
WHEN: DATE/TIME (ZEBRA) OF REPORT
AUTHENTICATION: AUTOMATIC FOR PLAIN LANGUAGE REPORTS

b. Unauthorized aircraft on course which takes it through aircraft warning area:


(1) Contact report

FROM: (CALL SIGN)
TO: CTG 7.3, CTU 7.3.2, CTU 7.3.3, CTU 7.3.5.
PRECEDENCE: FLASH (Z)
CLASSIFICATION: PLAIN
MESSAGE: BOGIE (BEARING) ZEBRA (DISTANCE)(AUTHENTICATION)

(2) Amplifying report

FROM: (CALL SIGN)
TO: CTG 7.3, CTU 7.3.2, CTU 7.3.3, CTU 7.3.5.
PRECEDENCE: FLASH (Z)
CLASSIFICATION: PLAIN
MESSAGE: SAME AS IN 7a(2)

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Operation Plan
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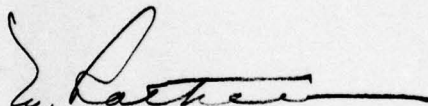
Annex N - Contact Identification and Development Plan

c. Action Reports

Ships and aircraft make action reports in accordance with NWIP-10-1.

8. In the event an unauthorized vessel, submarine or aircraft takes offensive action, ships and aircraft of Task Group 7.3 shall defend themselves with all weapons at their disposal.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander

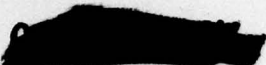


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary


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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.


Operation Plan
CTG 7.3 No. 1-55

25 March 1955; 1000R

Annex 0

Typhoon and Heavy Weather Plan

1. General.

- a. It is considered that the greatest single threat to the successful completion of Operation WIGWAM is the possibility of high winds with attendant heavy weather.
- b. The destructive force of high seas cannot be overestimated, and the surest invitation to disaster is to ignore its capabilities.
- c. For purposes of this annex, two separate conditions of unfavorable weather are specified. These are subdivided into Typhoon Conditions I, II, and III and Heavy Weather Conditions I, II, and III.
- d. The typhoon season in the Pacific Ocean is considered to include the months of May through January. Typhoons may and do occur, however, in any month of the year. Although the area of operations for WIGWAM is well outside the normally established typhoon belt, each unit of the task group must be mindful of the possibility of the occurrence of winds of typhoon force with attendant high seas.

2. Conditions of Readiness.

The following conditions of readiness are established and will be placed into effect by CTG 7.3 by message to all units of the task group upon receipt of information indicating that a typhoon or heavy weather is imminent:

a. Typhoon Condition I

Winds of 50 knots or more anticipated within 12 hours.

b. Typhoon Condition II

Winds of 50 knots or more anticipated within 24 hours.

c. Typhoon Condition III

Winds of 50 knots or more anticipated within 48 hours.

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Operation Plan
CTG 7.3 No. 1-55

Annex O - Typhoon and Heavy Weather Plan

d. Heavy Weather Condition I

Winds of 20 knots and/or swells with crests of 5 feet anticipated within 12 hours.

e. Heavy Weather Condition II

Winds of 20 knots and/or swells with crests of 5 feet anticipated within 24 hours.

f. Heavy Weather Condition III

Winds of 20 knots and/or swells with crests of 5 feet anticipated within 48 hours.

3. Mission.

a. To make maximum preparations and to take all possible precautions to avoid the path of a typhoon or minimize its effects.

b. To provide for the preservation of life and property during the actual course of the typhoon or heavy weather, and early restoration of essential services after it has passed.

4. Tasks.

a. Typhoon

If a typhoon condition appears imminent prior to commencement of the array assembly, attempts will be made to evade the probable path of the storm. Should it become necessary to cope with a typhoon once the array has been assembled, the array will be broken up into smaller and more easily handled segments, the smaller array elements will be loaded into parent vessels, the targets and weapon will be raised, the weapon transferred to the CURTISS and an attempt made to tow the targets and associated YFNB's and support floats with a scope of wire appropriate to the condition of the wind and sea.

(1) Condition III

(a) TU 7.3.0

1. Make preparations to top off destroyers.

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Annex O - Typhoon and Heavy Weather Plan

(b) TU 7.3.1

1. Make preparations to suspend operations.
2. Make preparation to transfer weapon from YC to CURTISS.
3. Commence disassembly of array in conjunction with TU 7.3.4.

(c) TU 7.3.2

1. Make preparations to suspend operations.
2. Prepare to top off destroyers.

(d) TU 7.3.3

1. Prepare to top off from heavy ships.
2. Reduce radius of search patrol to 20 miles from Point ZEBRA.

(e) TU 7.3.4

1. Commence disassembly of array in conjunction with TU 7.3.1.
2. Prepare to transfer weapon from YC to CURTISS.

(f) TU 7.3.5

1. Intensify patrols of TE 7.3.5.4.

(2) Condition II

(a) TU 7.3.0


1. Top off destroyers as directed by CTG 7.3.

(b) TU 7.3.1

1. Suspend all operations.

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Operation Plan
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Annex 0 - Typhoon and Heavy Weather Plan

2. Transfer weapon from YC to CURTISS.
3. Complete breaking up array.

(c) TU 7.3.2

1. Suspend flight operations.
2. Top off destroyers as directed by CTG 7.3.

(d) TU 7.3.3

1. Top off destroyers.
2. Reduce radius of patrol to 10 miles from Point ZEBRA.

(e) TU 7.3.4

1. Complete breaking up array.
2. Load instrument floats in parent vessels.
3. Recall and stow all boats.
4. Load and secure weapon.

(f) TU 7.3.5

1. Intensify patrols of TE 7.3.5.4.

(3) Condition I


Form cruising formation as directed.

b. Heavy Weather

Winds of 20 knots and/or swells with crests of 5 feet are considered to be a deterrent only in that small boat activity will by necessity cease, thereby suspending instrumentation activity at the site. It is not anticipated that it will be necessary to raise the targets from their lowered position.


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Annex O - Typhoon and Heavy Weather Plan

(1) Condition III

(a) TU 7.3.1

Continue instrument checks with the anticipation of suspending operations within 48 hours.

(b) TU 7.3.2

Continue operations.

(c) TU 7.3.3

Continue operations.

(d) TU 7.3.4

Continue services to TU 7.3.1.

(e) TU 7.3.5

Continue operations.

(2) Condition II

(a) TU 7.3.1

Continue instrumentation.

(b) TU 7.3.2

Continue operations.

(c) TU 7.3.3

Continue operations.

(d) TU 7.3.4

Continue services.


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Annex 0 - Typhoon and Heavy Weather Plan

(e) TU 7.3.5

Continue operations.

(3) Condition I

Suspend all array operations and prepare to maintain array into the wind and seas. CTU 7.3.5 continue hydrographic surveys.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

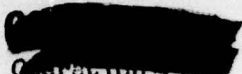


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary


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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.


CTG 7.3 No. 1-55

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Annex P

Administrative Plan

1. Personnel.

a. Assignment

The assignment of military personnel will be coordinated through the Commander Task Group 7.3. Civilian personnel will be assigned as necessary by the responsible DOD or Non-DOD agency.

b. Stabilization

All participating personnel are required to remain in their assignment until release upon completion of the operation, except when release, as set forth below, is authorized.

c. Release

Requests for release of personnel for administrative or disciplinary reasons will be forwarded to Commander Task Group 7.3 for approval. Release upon completion of duty will include the preparation and acceptance of reports deemed necessary by Commander Task Group 7.3 and clearance of all accountable material, documents or publications.

d. Travel Orders of Participating Personnel

Orders for personnel of agencies of the Department of Defense will be originated by the agencies concerned. Personnel of other agencies will be furnished invitational orders initiated by Commander Task Group 7.3.

e. Identification

Department of Army personnel are required to possess a DD Form 2A, Department of Air Force personnel a DD Form 2AF, and Department of Navy personnel a DD Form 2N. Civilian personnel are required to possess valid identification from their parent or sponsoring agency. Specific instructions of the WIGWAM Badge/Pass Identification System are contained in Task Group 7.3 Instruction 05510.12 dated 2 March 1955.

f. Medical Examinations

There is no specific requirement for pre-test physical examinations either among military or civilian personnel participating in the


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Annex P - Administrative Plan

operation. It shall, however, be the responsibility of program directors, project leaders and other supervisory personnel to assure themselves that the personnel under their supervision are in good health, physically able to withstand the stresses and strains of the operation.

g. Radiological Safety

Limitations as to previous exposures and access to contaminated areas, in addition to other pertinent radiological safety information and instructions, are contained in Annex G, to this operation plan.

h. Immunization

There are no special immunization requirements for personnel participating in Operation WIGWAM.

i. Personal Baggage

Personal baggage will be limited to hand luggage and footlockers.

j. Personal Mail

Personal mail may be addressed to the Special Projects Unit, U.S. Navy Electronics Laboratory, San Diego 52, California, and every effort will be made to effect its delivery. Personnel having a mailing address at their living quarters should utilize that address to facilitate their receiving mail.

k. Emergencies

Travel orders issued to Department of Defense, military and civilian personnel, will contain complete information of next of kin or other individual to be notified in the event of an emergency. Personnel participating in Operation WIGWAM from Non-DOD agencies must furnish similar information to Commander Task Group 7.3 prior to embarkation.

l. Clothing

Clothing suitable for the San Diego area will be required. Special clothing for technical work or of a protective nature is the responsibility of either the parent or sponsoring agency.


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Annex P - Administrative Plan

Clothing to be worn daily should be selected that will launder satisfactorily should facilities on board ship be limited to roughdry laundry.

m. Uniform

Military personnel will conform to uniform requirements ashore as prescribed by Commandant ELEVENTH Naval District. While embarked in ships under the operational control of Commander Task Group 7.3, uniform will be as prescribed by the Task Group Commander.

n. Special Services

Navy exchange and laundry facilities will be made available to military and civilian personnel on board ship within the scope of the directives of the commanding officer and the capacity of each facility.

o. Medical Facilities

Medical service will be available within the capacity of each ship with medical personnel and a dispensary. Dental service, except in emergencies, will not be available during the operation.

p. Leave of Absence

Leave of absence for personnel during Operation WIGWAM will be subject to the approval of the Task Group Commander. Leave of absence during this period will be granted only in case of extreme emergency.

q. Military Jurisdiction

All personnel are under the direct military jurisdiction of the commanding officer of the ship in which embarked.

r. Military Records

Military records of all officers and enlisted personnel of the task group will be retained by the appropriate administrative unit.

s. Disposition of Records

The destruction of any official record or document will be accomplished only upon specific authorization in accordance with the instructions of the Task Group Commander.


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Annex P - Administrative Plan

t. Reports of Fitness, Efficiency and Effectiveness

Reports of fitness, efficiency and effectiveness of a routine nature will be rendered by supervisory personnel of military personnel in accordance with the regulations set forth by each branch of the Armed Forces. Special reports of fitness, efficiency and effectiveness of individual performance of duty will be made by the Task Group Commander as he deems appropriate.

2. Awards and Decorations.

Recommendations for awards and decorations will be made in accordance with SecNav Instruction 1650.1A of 8 October 1954.

3. Operational Reports.

Operational reports will be submitted by all commands in accordance with the instructions set forth in Appendix I to this annex.

4. Technical Reports.

Specific instructions for the preparation and submission of technical reports and information relative to processing and reproduction are contained in Chief, AFSWP Confidential letters serial 564 of 1 March 1955 and serial 0576 of 10 March 1955 and Secret letter serial 00571 of 17 March 1955. Authors, program directors, and other personnel responsible for submission of Interim Test Reports will be released from the operation under the conditions set forth in paragraph 1.c. of this annex.

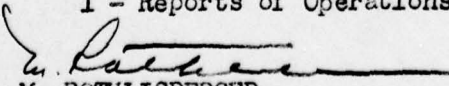
5. Messing and Berthing.

Civilians participating in Operation WIGWAM shall, insofar as practicable, be accorded wardroom messing and cabin berthing, commensurate with their rating, while embarked in ships of the Task Group.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander

Appendix:

I - Reports of Operations

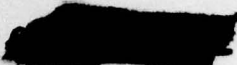

M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.


Operation Plan
CTG 7.3 No. 1-55

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Appendix I to Annex P

Reports of Operations

1. All commands will submit in duplicate to CTG 7.3 a Report of Operations via their respective TG 7.3 chain of command with a deadline date of submission of not later than 15 June 1955. The period to be covered by this report commences with the time individual commands report to CTG 7.3 for operational control and terminates with the time units return to port from the operating area. This report will include recommendations for consideration in planning and execution of possible future similar operations. Attention is invited to the form contained in CINCPACFLT INSTRUCTION 03500.2 for information and guidance.
2. In order not to impose an unnecessary additional administrative burden upon reporting commands, a historical report will not be separately submitted but will be considered as being the Brief Descriptive Narrative (Enclosure (2) para 1.) of CINCPACFLT INST 03500.2. This enclosure should include not only the what, how and why it was done but also the when, where and by whom.
3. A separate report of salvage will be submitted by all commands participating in the post-detonation salvage operations. This report will be forwarded two weeks after completion of such salvage operations via normal Task Group 7.3 chain of command.
4. It is realized that individual commands will have items peculiar to their task unit assignments on which to report. However, if appropriate, it is desired that the Report of Operations contain specific recommendations as to the following:
 - a. Mission.
 - b. Organization and command relationship.
 - c. Planning and training.
 - d. Assembly of subordinate units and deployment to operating area.
 - e. Operating area operations:
 - (1) Seamanship - general and special (streaming and recovery).
 - (2) Evacuation and re-entry.

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Appendix I to Annex P - Reports of Operations

- (3) Transportation (surface) - Boat Pool and other.
- (4) Transportation (air) - Helicopter and other.
- f. Salvage and repair.
- g. Search and rescue.
- h. Natural disaster (typhoon or heavy weather).
- i. Radiological safety.
- j. Report of radiac instruments employed by naval forces.
- k. Air support (TU 7.3.2 and TU 7.3.5).
- l. Special missions.
- m. Security.
- n. Security patrols.
 - (1) Surface (TU 7.3.3).
 - (2) Air (TE 7.3.5.1).
- o. Convoy and escort.
- p. Combat information center coordination.
- q. Security and intelligence (personnel).
- r. Aerology.
- s. Communications and electronics.
- t. Logistics (other than salvage and repair).
- u. Medical.
- v. Summary, conclusions and recommendations.


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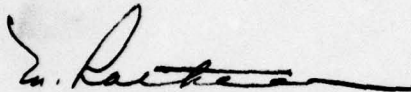
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Appendix I to Annex P - Reports of Operations

Any other items which the command submitting may deem helpful in planning for future similar operation should be included. The quality of a comprehensive analysis of Operation WIGWAM is solely dependent upon the quality and thoroughness of the reports submitted by subordinate commands.

JOHN SYLVESTER
Rear Admiral, U.S. Navy
Commander



M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Joint Task Force SEVEN
Task Group 7.3
Washington 25, D. C.

Operation Plan
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Annex Q

Oceanographic Survey Plan

1. General.

Craft controlled by CTE 7.3.1.8 will consist of oceanographic survey ships operated by Scripps Institution of Oceanography. These craft will perform a two-fold task:

- a. Conduct a general area survey of the region encompassed by the Operation Plan and,
- b. Conduct an oceanographic survey of the test site immediately after H Hour. The duration of this survey is to be dependent upon the intensity of radiological contamination.

2. Operational Plan

- a. Prior to D-7, PAOLINA-T and one other SIO oceanographic ship will conduct surveys in the area for verification of predicted conditions.
- b. D-7 BAIRD and HORIZON arrive at test site, lay current drogues and make oceanographic surveys of area.
- c. D-7 to D-3 oceanographic work continued. HORIZON working generally down stream from BAIRD, both within fifty miles of planned Surface Zero (SZ). CTE 7.3.1.8 report to CTG 7.3 any unexpected findings of critical importance to the test.
- d. D-4 TE 7.3.1.8 report oceanographic and biological findings and advise suitable location of test within the selected area, and current effects upon the array (Projects 2.5 and 2.8 assist). HORIZON assisted by buoy boat commence installation of deep moorings. Three such moorings to be installed at 3 mile intervals on a line parallel to the planned track of the array. This line to be approximately $2\frac{1}{2}$ miles from array track. Two deep moorings will be established astern of the array on line with the trend of the array. BAIRD perform surveys on water mass 20-30 miles upstream of SZ, or assist in setting deep moorings, if required. Buoy boat place the floating elements on the deep moorings including wave measuring devices.

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Annex Q - Oceanographic Survey Plan

e. D-1 HORIZON buoy boat and T-boat (BAIRD if required) complete installation of deep moorings.

f. D Day - At H Hour, PAOLINA-T to be out of area or in a safe sector 40-50 miles from GZ. BAIRD to be performing oceanographic work 20 miles upstream from GZ. HORIZON to be 7 miles from GZ bearing 310° from GZ. Buoy boat to be left adrift on sea anchor at 12 miles 310° from GZ. The T-boat will be manned and astern of HORIZON. Record arrival of shock wave. HORIZON to get underway towards SZ with passage of shock wave. Enter test area in accordance with one of the plans listed below as directed by CTU 7.3.1.

3. Detailed Plans.

a. One of four alternative sets of plans are to be followed depending upon the gross visual appearance of the phenomena. The selection will be made by CTU 7.3.1.

b. These plans will control the TE 7.3.1.8 vessels up to clearance of the area from danger or fall-out.

c. From subsequent information, certain sub-plans will be followed as set forth below.

d. The HORIZON will utilize her radiation navigational aid in scanning the water ahead and abeam at all times.

e. At any time during the approach toward GZ that significant surface radioactivity is encountered, the HORIZON will send the T-boat away from SZ and cautiously approach the periphery with vertical sondes.

f. At any time in the approach that submerged radioactivity is encountered, the T-boat will be sent away from SZ, taking vertical sondes. The HORIZON will attempt to determine the rate of advance of the submerged radioactivity and the rate of "fall-up." If the advance is rapid, all further plans will be abandoned, and Plan Z followed: The T-boat will remain at least 2 miles outside the advancing edge. The HORIZON will attempt to follow the advancing edge and notify CTG 7.3 of its velocity, probable extent and rate of "fall-up." This latter condition is Condition ZEBRA, and will be suspected at any time that submerged radioactive water is found whose density is greater than normally associated with the

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Annex Q - Oceanographic Survey Plan

depth. High probability of Condition ZEBRA is associated with Conditions BAKER, CHARLIE and DOG. Variant Item as discussed below:

(1) Plan 1

Follows Condition 1, a high spike, crown, widespread irregular venting, or a base surge in the air is observed, or observation is obscured or uncertain. The HORIZON will proceed toward the SZ followed by the T-boat. She will proceed to within 5 miles of SZ and commence laying drogued buoys and taking vertical sondes to 3 miles of SZ where she will stand by, raising and lowering her vertical sondes. She will stand by at 3 miles until she receives clearance for fall-out and information on radioactivity and temperature over SZ, from the YAG-40 and survey aircraft. She will observe motion of the drogued buoys laid by the YAG-39 across SZ.

(2) Plan 2

Follows Condition 2, a low spike, or radial plume is observed. The HORIZON will proceed toward SZ, laying drogued buoys at 5 miles and proceeding to 2 miles. At two miles stream the horizontal RTP gear and stand by cruising circumferentially to SZ and up wind awaiting clearance for fall-out and information on surface radioactivity and temperature as above. HORIZON observe the YAG dropped drogued buoys. The T-boat will follow the HORIZON and will commence taking vertical sondes at 5 miles and will proceed to the position of the HORIZON.

(3) Plan 3

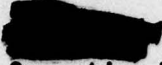
Follows Condition 3, a spray dome only is observed. The HORIZON will proceed toward SZ, with T-boat dropping drogued floats at 4 miles from SZ, and streaming horizontal gear. HORIZON proceed toward SZ but no closer than $1\frac{1}{2}$ miles, subject to further information. The T-boat will follow the HORIZON, obtaining vertical sondes at points indicated by the HORIZON's measurements.

(4) Plan 4

Follows Condition 4, a very small or no spray dome and light shock are observed. The HORIZON will proceed directly

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Operation Plan
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Annex Q - Oceanographic Survey Plan

toward SZ. If the weapons barge is afloat, HORIZON will not drop drogued buoys, otherwise, will commence dropping them at 3 miles.

4. Sub-Plans

a. Following clearance for fall-out the HORIZON will proceed depending upon the information received on radioactivity and water temperature, and observation of the drogued floats across SZ. These plans are based on the estimates of conditions contained in "Table of Thermal and Activity Relationships for WIGWAM Operation" a copy of which is appended.

(1) Sub-Plan ABLE follows the receipt of information of Condition ABLE: The surface water about SZ is the same temperature or warmer than normal surface water and is radioactive.

(2) Sub-Plan BAKER follows the receipt of information of Condition BAKER: The surface water about SZ is colder than normal surface water and is radioactive.

(3) Sub-Plan CHARLIE follows the receipt of information of Condition CHARLIE: The surface water about SZ is colder than normal surface water and is not radioactive.

(4) Sub-Plan DOG follows the receipt of information of Condition DOG: The temperature of surface water about SZ is that of normal surface water and is not radioactive.

(5) Variants - These sub-plans are further modified by two variants:


(a) Variant OBOE is that the debris, samplers or drogued floats about SZ are diverging from the center (i.e. outward).

(b) Variant ITEM is that the debris, samplers or drogued floats about SZ are converging on the center (i.e. inward).

1. For variant ITEM a strong possibility of a submerged "base surge," Condition ZEBRA, exists. Some combinations of the plans and sub-plans cannot exist. Possible ones are shown diagrammatically in Appendix I to this annex.


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Operation Plan
CTG 7.3 No. 1-55

Annex Q - Oceanographic Survey Plan

b. The sub-plans commence following clearance from fall-out and are as follows:

(1) Plan 1 ABLE-OBOE

This is a most hazardous condition. If the radiation level at 30 minutes exceeds 1000 r/hr it is assumed that stable (buoyant), radioactive water is spreading out along the surface. The outward advance of such a layer probably cannot exceed $1\frac{1}{2}$ mile radius. From position at 3 miles, the HORIZON will proceed toward the upstream edge of this water utilizing radiation navigational equipment and will attempt to measure the deeper radioactivity by vertical sonde as close in as is discreet. The T-boat will proceed to the five-mile radius or farther taking vertical sondes for deep radioactivity.

(2) Plan 1 ABLE-ITEM

It is presumed that stable radioactive water may exist at the surface but is being drawn to the center by the subsidence or circulation of a column of deep unstable water, or that the surface water results from the heating of deep highly saline water and is unstable and is sinking. If the observed temperatures are very high (25°C) and radiation exceeds 3000 r/hr at 30 minutes, the first condition must obtain. The possibility of Condition ZEBRA, a subsurface "base surge" along the thermocline is high. The HORIZON will approach the SZ with horizontal gear streamed and will proceed as close as is prudent. The T-boat will follow the HORIZON taking vertical sondes at points indicated by comm from the HORIZON.

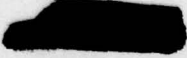
(3) Plan 2 ABLE-OBOE

This is the same as Plan 1 ABLE-OBOE except that the sub-plan starts from 2 miles rather than 3 from SZ. These conditions are unlikely.

(4) Plan 2 ABLE-ITEM

This is the same as Plan 1 ABLE-ITEM except that the sub-plan starts from 2 miles rather than 3 from SZ.

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(5) Plan 3 ABLE-OBOE

This is a highly hazardous condition. It is assumed that all radioactivity and thermal energy now exists in the water and that very little mixing in the water mass has taken place. If the water temperature is 25°C or greater a completely stable surface layer will be assumed. Additional warm radioactive water may reach the surface at any time and accelerate the rate of spreading. This may occur upstream of "Floating SZ." The HORIZON will cautiously skirt the surface radioactivity in an upstream direction with horizontal gear streamed. The buoy boat will remain outside the radius of the HORIZON taking vertical sondes between two and four mile radius.

(6) Plan 3 ABLE-ITEM

It is assumed that subsidence of an unstable deep mass is occurring or that the surface water is heated deep water and hence unstable (tending to sink) because of its high salinity. If the surface temperature is high (25°C), the first assumption will be made. Condition ZEBRA is possible. The HORIZON will proceed cautiously toward SZ with horizontal gear streamed. The T-boat will follow her comm well astern.

(7) Plan 1 BAKER-OBOE

It is assumed that active mixing is occurring and that divergence is the surface reflection of circulating water mass. There is only a slight possibility of later upwelling of stable radioactive water. The HORIZON will proceed toward the upstream edge of the surface radioactivity with horizontal gear streamed. The T-boat will accompany her at her comm.

(8) Plan 1 BAKER-ITEM

It is assumed that active mixing has occurred and that a mass subsidence of a column of cold water is occurring. If the convergence is marked, a strong possibility of Condition ZEBRA, a subsurface "base surge" along the thermocline exists. The T-boat will proceed outward taking vertical sondes to a 5 mile radius. If no activity is found the T-boat will return to the HORIZON at her comm. The HORIZON will proceed

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Annex Q - Oceanographic Survey Plan

inward toward the surface radioactivity with horizontal gear streamed. Upon the detection of any advancing subsurface radioactivity Plan ZEBRA will be followed. If no radioactivity is detected in the thermocline, the horizontal gear will be retrieved and vertical sondes will be taken as close to any surface activity as is prudent.

(9) Plan 2 BAKER-OBOE

This follows Plan 1 BAKER-OBOE except that the plan starts from 2 rather than 3 miles. The horizontal gear will be retrieved.

(10) Plan 2 BAKER-ITEM

This follows Plan 1 BAKER-ITEM except that the plan starts from 2 rather than 3 miles and horizontal gear is already streamed.

(11) Plan 3 BAKER-OBOE

This is a hazardous condition. It is assumed that a mass of warm radioactive water may be ascending. The plan will follow Plan 3 ABLE-OBOE. It is expected that this condition will change rapidly to Condition BAKER-ITEM.

(12) Plan 3 BAKER-ITEM

It is assumed that mixing has well progressed and that the subsidence and spreading of a column of cold radioactive water is assured. The possibility of Condition ZEBRA is high. Plan 2 BAKER-ITEM will be followed.

(13) Plan 3 CHARLIE-OBOE

This is a highly hazardous condition. If divergence is marked, it is assumed that all radioactive products are in a mass of water which is ascending because of entrained gas, temperature, or residual momentum. The possibility of sudden upwelling of a highly radioactive mass is great. If divergence is very feeble this may indicate a surface circulation cell, which results from a deep subsidence which did not breach the thermocline. A conservative course will be followed until


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the situation is further clarified. The HORIZON will stand well off the upwelling area taking vertical sondes after retrieving horizontal gear. HORIZON will avoid the area of "Geographical Ground Zero." It is expected that this condition may shift to Condition 3 CHARLIE-ITEM.

(14) Plan 3 CHARLIE-ITEM

The HORIZON will retrieve horizontal gear and proceed toward SZ making frequent vertical sondes. At any time that deep radioactive water is found, samples will be obtained. The T-boat will proceed outward taking sondes to a radius of about four miles.

(15) Sub-Plan 3 DOG-OBOE and 3 DOG-ITEM

Follow 3 CHARLIE-OBOE and 3 CHARLIE-ITEM, respectively.

(16) Sub-Plan 4 DOG

No variant is expected to exist here. The HORIZON and T-boat will proceed directly to "Geographical GZ," retrieve horizontal gear and take vertical sondes. At anytime that radioactive water is found, samples will be obtained. The T-boat will proceed to "floating SZ" and take vertical sondes.

5. Other Possibilities.

a. It is believed that one condition may shift to another, at which time the plan will be shifted similarly. As stated above, at any time that Condition ZEBRA is found, Plan Z will be followed.

b. It is probable that the convergence or divergence may be transient, and completely degraded by the time the HORIZON arrives or the IAG's approach the area. The dominant mechanism will be inferred from air observations.

c. Degrees of radioactivity, temperatures, and violence of the convergence or divergence will affect the above plans. If the drogue buoys move rapidly or disappear or if radioactivity reaches an unexpectedly high value the action taken in carrying out these plans will be correspondingly conservative. Regardless of the conditions observed at "floating SZ" there is always the possibility

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of the late upwelling of radioactive water over "Geographical GZ." This possibility will be watched for and action will be taken to prevent mishap.

d. The plans are designed to intercept an excursion of deep radioactive water.

e. Complexities are likely that do not clearly fall into the above categories. For example, it is probable that a ring of warm water containing explosion products may surround a welling of cold water (as is common in submarine volcanic eruptions). Such a ring could not have a radius greater than $1\frac{1}{2}$ miles. In the case of complexity the chosen action will follow the controlling condition.

f. Following the above early phases the HORIZON will, in general, explore the deep water at "Deep Floating SZ" and determine its extent and deep mixing rate. HORIZON will then proceed downstream and study the water over which the advancing surface radioactive water will slip.

(1) D+1 Day

BAIRD studies water upstream of "Geographical GZ." HORIZON studies water downstream of "Floating SZ," established and follows previously established current floats. T-boat covers air dropped samplers, Project 2.6.2., if not recovered earlier.

(2) D+2 Days

BAIRD and HORIZON initiate biological collector sampling both in deep and in shallow radioactive water, or earlier, if compatible with requirements of the survey. Project 2.5.

(3) D+3 Days

BA OLINA-T arrives and does long line fishing in uncontaminated areas. Project 2.5.

(4) D+4 Days

T-boat and BAIRD recover free vehicles if installed.

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Annex Q - Oceanographic Survey Plan

(5) D+15 Days

Approximately. When levels are such that BAIRD can carry survey alone. HORIZON destroys all radioactive deep mooring and returns to port with buoy boat and T-boat.


(6) D+40 Days

Approximately. No levels can be found greater than 3×10^{-9} curies per ml in water or organisms, referred to 3 days. If trajectory of all radioactive water masses appears known and satisfactory, BAIRD and PAOLINA-T return to CONUS.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander

Appendix:

I - Oceanographic Survey Plan Table


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

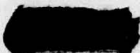
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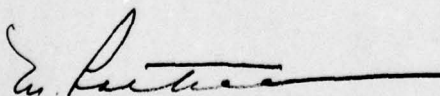
25 March 1955; 1000R

Appendix I to Annex Q


Oceanographic Survey Plan Table

Survey Condi- tions At SZ	One	Two	Three	Four
	High Spike, Crown Mixed or Uncertain	Low Spike, Plume	Dome Only	No or Small Some Light Shock
Able-R & Hot	1 Able Oboe 1 Able Item	2 Able Oboe 2 Able Item	3 Able Oboe 3 Able Item	
Baker-R & Cold	1 Baker Oboe 1 Baker Item	2 Baker Oboe 2 Baker Item	3 Baker Oboe 3 Baker Item	
Charlie-No R & Cold			3 Charlie Oboe 3 Charlie Item	
Dog-No R & Normal			3 Dog Item	4 Dog

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Rear Admiral, U. S. Navy
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Annex R

Radar-Scope Photography Plan

1. Purpose.

To provide a permanent record of the track of five aircraft between H-15 minutes and H+3 hours by photographing the range and bearing information presented by the fire control and radar equipment on board USS MOUNT MCKINLEY (AGC-7), USS SMALL (DDR-838) and USS MC KEAN (DDR-784).

2. Requirements.

a. The range and true bearing information on five (5) aircraft operating over a 10 mile course and at altitudes varying from 200 to 2000 feet or more depending upon the cloud cover for a period of approximately 3 hours. The range and true bearing of several surface ships and craft from each of the three ships. The distance of ships and craft whose positions are desired will vary between 2 to 6 miles.

b. CR-1a cameras will be used to photograph and record the desired information. For tracking of surface elements the cameras will be installed over SPA-8A scopes taking a picture every 15 seconds. To record the tracking of the aircraft, data panels will be employed to present the data from the Mark 25 and 56 fire control units, recording a picture every 6 seconds. All cameras must be synchronized within 0.5 seconds. Each ship will detail qualified personnel to monitor the cameras under the supervision of the Navy Electronics Laboratory.

3. Procedure.

a. Survey I (USS MC KEAN (DDR-784))

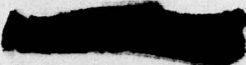
(1) H-2 to H+4½ minutes - Track #1 C-54 (Alt 1800') with MK 25 FC radar. Then shift to #1 AD5N (Alt 1500') until approximately H+3 hours.

(2) H-2 to H+4½ minutes - Track #2 C-54 (Alt 1800') with MK 56 FC radar. Then shift to #2 AD5N (Alt 1500') until approximately H+3 hours.

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Annex R - Radar-Scope Photography Plan

(3) H-5 minutes to H+3 hours - Track three C-54's photo planes with AN/SPS6B using an AN/SPA-8A or VK-2 repeater.

(4) H-5 minutes to H+3 hours - Track surface array with AN/SG6B using an AN/SPA-8A or VK-2 scope.

b. Survey II (USS SMALL (DDR-838))

(1) H-2 to H+4½ minutes - Track #3 C-54 (Alt 1800') with MK 25 FC radar. Then shift to #1 AD5N (Alt 1500') until approximately H+3 hours.

(2) H-2 to H+4½ minutes - Track #1 C-54 (Alt 1800') with MK 56 FC radar. Then shift to #2 AD5N (Alt 1500') until approximately H+3 hours.

(3) H-5 minutes to H+3 hours - Track three C-54's with AN/SPS6B using AN/SPA-8A or VK-2 repeater.

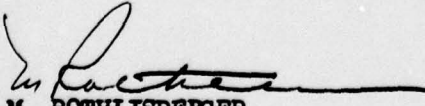
(4) H-5 minutes to H+3 hours - Track surface array with AN/SG6B using an AN/SPA-8A or VK-2 repeater.

c. Survey III (USS MOUNT MCKINLEY (AGC-7))

(1) H-5 minutes to H+3 hours - Track three C-54's with AN/SPS6B using an AN/SPA-8A or VK-2 repeater.

(2) H-5 minutes to H+3 hours - Track surface array with AN/SG6B using an AN/SPA-8A or VK-2 repeater.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary


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Annex S

Reports

The following is a tabulation of reports required by CTG 7.3 as derived from this operation plan. It does not incorporate technical and scientific weapons test reports or other reports required by separate directives:

<u>Report No.</u>	<u>Description</u>	<u>Submitted By</u>	<u>Required</u>	<u>References</u>
1.	Final Operational Report	All Commanders	15 June 1955	Appendix I to Annex P.
2.	Burnable Fuel on Hand and Sonar Message	CTU 7.3.3	Daily	Annex M.
3.	Position	MT MCKINLEY, CURTISS & WRIGHT	0800, 1200 & 2000	Para x(7)
4.	Status	TU Commanders	Weekly (prior 1400 Mondays)	Para x(8)(d)
5.	Recommended Shot Site	CTE 7.3.1.2	D-4	Appendix I to Annex A.
6.	SQUAW Survey	Project 3.5	D-1	Appendix I to Annex A.
7.	Movement Reports	Originators	WO	Para 600(4), Annex C.
8.	Circuit Interference	CO, TE Commanders & TU Commanders	WO	Para 440(1), Annex C.
9.	Radio Security Violations	Net Control Stations	WO	Para 433(a), Annex C.

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Annex S - Reports

<u>Report No.</u>	<u>Description</u>	<u>Submitted By</u>	<u>Required</u>	<u>References</u>
10.	Communications Summary	CO, TE Commanders, TU Commanders	Upon completion Operational phase	Para 54, Annex C.
11.	Accountable or Responsible Officer	TU Commanders	WO	Para 4.e., Annex D.
12.	Survey of Government Property	TU Commanders	WO	Para 8.c., Annex D.
13.	Security Violations	CO, TE Commanders, and TU Commanders	WO	Para 2.a., Annex F.
14.	Expected Radioactive Exposure of Personnel	All CO's	WO	Para 3.b.(7), Annex G.
15.	Instances of Radioactive Contamination	CO, TE Commanders and TU Commanders	Three working days after entering first port	Para 7, Annex G.
16.	Radiac Equipment Performance	CO, TE Commanders and TU Commanders	Three working days after entering first port	Para 7, Annex G.
17.	Return of Radiac Instruments	CO, TE Commanders and TU Commanders	Three working days after entering first port	Para 7, Annex G.
18.	Aircraft Departures & Arrival at CONUS	CTU 7.3.5	WO	Para 1.b.(1), App VI to Annex H.
19.	Weather and Position	Aircraft of TE 7.3.5.1	Hourly	Para 3.b., App VI to Annex H.

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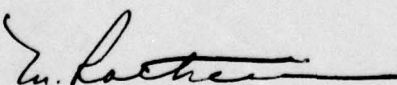
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Operation Plan
CIG 7.3 No. 1-55

Annex S - Reports

<u>Report No.</u>	<u>Description</u>	<u>Submitted By</u>	<u>Required</u>	<u>References</u>
20.	Aircraft Summary Report	All Air Units	Ten days after completion of operational phase	App VI to Annex H.
21.	Status of Salvage Operations	CTU 7.3.4	Daily	Para 4, Annex K.
22.	Final Salvage Report	Participating Units	Two weeks after completion of salvage operations	App I to Annex P.
23.	Contact	Unit Making Contact	WO	Annex N.

JOHN SYLVESTER
Rear Admiral, U. S. Navy
Commander


M. ROTH LISBERGER
LCDR, U. S. Navy
Flag Secretary

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Annex B - Reports

Report No.	Description	Submitted By	Received	Reference
20.	Attorney General's Report	All Air Units	Ten days after completion of operational phase	App VI to Annex H.
21.	Status of Salvage Operations	OTU 7.3.4	Daily	Form H, Annex K.
22.	Final Salvage Report	Participating Units	Two weeks after completion of salvage operations	App VI to Annex H.
23.	Contact	Unit Name Contact	NO	Annex H.

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HEADQUARTERS
FLD COMD. DNA

JOHN W. BROWN
Rear Admiral, U.S. Navy
Commander

N. POWELL
Rear Admiral, U.S. Navy
Vice Commander